Water conservation

**Integrated pest management**

Crop residue management

Our technology exists to serve farmers — on their soil.

Explore the world of CNH technology and see how our solutions protect the earth — now and for generations to come.

That's why CNH is building a **connected, intelligent ecosystem** powered by intelligence and autonomy. Our vision is clear: to create **predictive, sustainable systems** that help farmers see ahead, act smarter, and produce more with less.

Because the defining challenge of our time is urgent and universal — **to feed more people with less land**, under harder conditions than ever before. And meeting that challenge begins where farming itself begins: **with the soil.**

Soil is more than dirt — it's **the lifeblood of the farm**, the foundation of every crop, the source of most nutrients. **With arable land increasingly constrained, farmers must make the most of every hectare** — and CNH technology is helping them rise to the challenge every day.
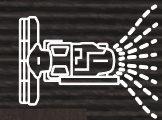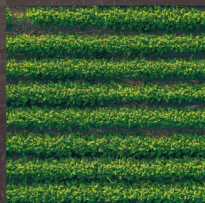
Nutrient stratification

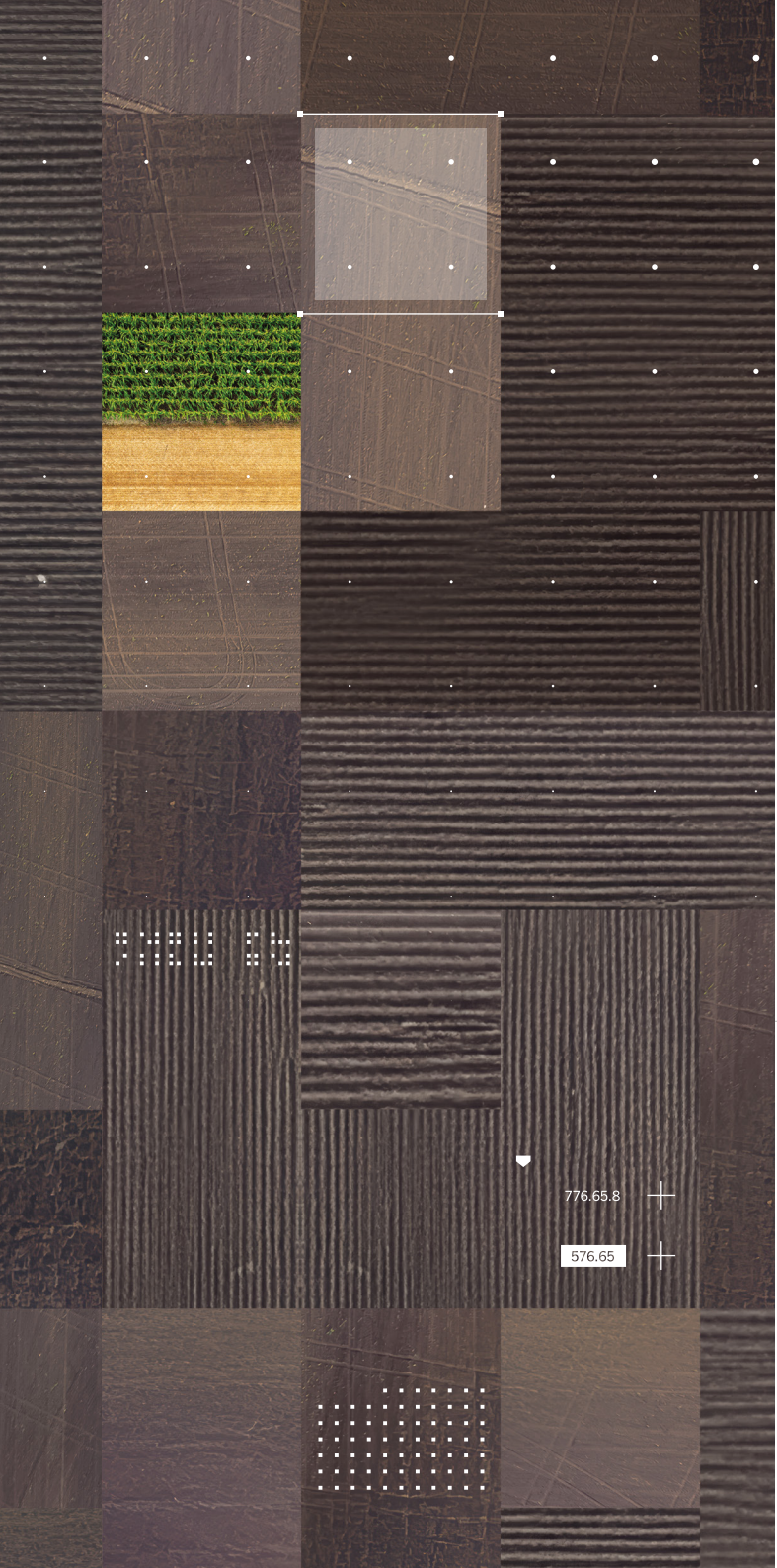**Timeliness of operations**

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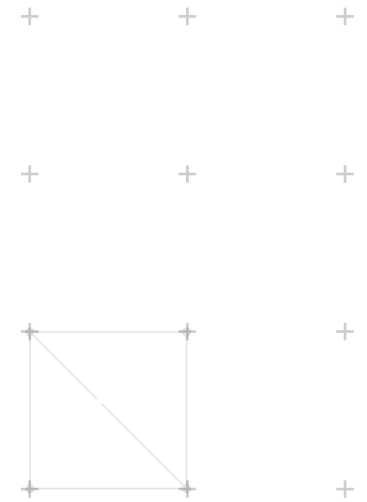
FieldOps

A fully connected ecosystem is the backbone of a continuously improving operation. Customers who connect their fleet make every in-field minute count, improving efficiency as they go.

FieldOps™ Digital Farm Management

The web and mobile application that makes it easier than ever for customers to manage their machines and fieldwork anywhere, anytime. It's available on smartphone, computer, and **now iPad**.

- Real-time machine and agronomic data
- Remote display view | Easy troubleshooting
- Intuitive and easy to use

Limitless Connectivity

CNH's open approach to connectivity brings stable signals to all areas around the globe. With **Connectivity Included** for the lifetime of the modem on new machines and a variety of access options — including **Starlink™** satellites that boost coverage in the most remote areas — customers can simply get stuff done without losing coverage.

From Reactive to Proactive Service

Equipped with **AI Tech Assistant** and fully connected machines, dealers use smart, predictive systems to fix issues faster — often before they become a problem.

LAYER 0.22.3

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Field Preparation

Every hectare of soil needs specific treatment to ensure crops take root, stand tall, and get the right nutrients. Maintaining the right soil structure and leveling helps every field maintain the best conditions to feed the future. Today, we take the best care of the soil in multiple ways.

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Reducing Soil Compaction

The multi-award-winning Case IH Quadtrac® system uses four 30- or 36-inch-wide rubber tracks to reduce ground pressure to a minimum of 0.55 kg/cm^2 (the pressure of 7.85 psi), comparable to the pressure of an average person on one leg. This barely disturbs the soil.

Case IH Steiger Quadtrac:

EIMA HighPower Tractor of the Year 2025

Red Dot Product Design Award 2025

Red Dot Innovative Design Award 2025

2024 EIMA Technical Innovation Award

Good Design Award 2023

Prescription Tillage (*Case IH Soil Command™ Agronomic Control Technology*)

When the tillage tool adjusts settings automatically, a rough field with multiple soil types and conditions becomes a smooth seedbed. Prescription Tillage takes a farmer's FieldOps™ map and applies the right settings every second as the operator drives through the field. Across sample field trials, using automation resulted in:

- **~€75/hectare** (~US$36/acre) **savings**
- **17%** less fuel consumption
- **4%** yield improvement
- **9.5%** more hectares covered

Case IH Soil Command™ Agronomic Control Technology — 2019 ASABE AE50 Award Winner

Note:
Data taken from Case IH field-scale agronomy research conducted at Elizabeth City, NC, USA. Data (productivity, fuel, total savings) was from five fields (~80 hectares/ ~200 acres), soybean yield results were captured in two of those fields.

TOMORROW'S SOLUTION: **AUTONOMOUS TILLAGE**

Timeliness is key with tillage, especially under less-than-ideal conditions. CNH's Autonomous Tillage development is focused on helping farmers be even more efficient with practical driverless solutions for their operation, leading to:

- **Maximized yield potential**

- **Reduced dependence on labor, allowing everyday farmers to get more work done, faster, saving costs and time**

- **Improved agronomic outcomes, ensuring every field is treated with full control of every step of the tillage process**

Seed & Plant

Precise planting prevents the most common and costly mistake: uneven seed spacing, which leads to uneven yield and inconsistent passes through the field. Our operators place every seed in the right spot, keeping nutrient stratification, emergence, and yield even across the field — season after season.

Active and Passive Implement Guidance

Pull-type implements such as planters and seeders can sway wildly over uneven terrain or soil conditions, placing seeds in the wrong place – which leads to uneven emergence, lower yield, and less profit. CNH's Implement Guidance solutions make sure they stay on track, placing every individual seed directly in the right place, correcting for both bumps in terrain and left/right pulling due to soil type differences.

- Active Implement Guidance keeps every pass within 0-5 cm of the intended pass over **95%** of the time by using hydraulics to steer it into place.
- Passive Implement Guidance directs the tractor to correct for terrain and left/right pulling.

Farmers can get planting and seeding done faster with more accuracy, maintaining the best soil structure with the best seed and input placement.

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TOMORROW'S SOLUTION:
ADVANCING SEEDER AND PLANTER AUTOMATION

CNH's future planters and seeders will be even more automated with:

- **Integrated guidance with improved section control**
- **Added automatic features, making every part of driving the planter simple**
- **Faster setup and calibration**
- **Enhanced FieldOps™ data experience with real-time sensing and monitoring**

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Grow & Protect

Managing every microenvironment with precise spraying keeps plants, soil, and yield in better condition. By eliminating weeds, replenishing nutrients, and conserving inputs, sensor-based automation sustains the soil with the least intrusive treatment possible. This reduces soil contamination and improves sustainability, keeping the soil as healthy as possible for future crops.

Green-on-Brown and Variable Rate Application *(Case IH SenseApply™ Technology / New Holland IntelliSense™ Sprayer Automation)*

With rising input costs and environmental regulations, Green-on-Brown and Variable Rate applications empower farmers to cover more hectares faster, more accurately, and more efficiently. Weeds, pests, and nutrient balances are managed without excess soil contamination or developed resistance.

- Selectively spraying green weeds on brown pre-emerged fields **saves up to 60% of herbicide use**.

- Variable rate applications across nitrogen, fungicide, plant growth regulators, harvest aid, and burndown herbicide can **save up to 20% of inputs**.

- On average, farmers can save up to **~120,000 liters** (~32,000 gallons) **of product applied per season or ~€23,000** ($28,000) **in annual savings*** — a volume equivalent to **3.5 months** or 105 days of household water use**.

UNIQUE IN THE INDUSTRY

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* Based on a ~1,400 hectare farm (3,500 acre) U.S. wheat farm, 2 fertilizer passes at a product cost of ~€1.50/gal ($1.86/gal) and 1 burndown pass at a product cost of €0.42/gal ($0.50/gal).

** Daily household water usage at ~1,100 liters (300 gallons) per day according to the U.S. Environmental Protection Agency.

TOMORROW'S SOLUTION: SENSE AND ACT PARTNERSHIPS

Spraying weeds on a post application, post-emerged green field gives farmers better reactive pest control, eliminating disease and weeds immediately without creating resistance or excess waste. CNH is accelerating the future of green-on-green selective spraying through a multi-partner strategy that expands our Sense and Act portfolio and delivers real customer value across regions.

CNH Factory-Fit Solution featuring One Smart Spray (Launching in North America 2027)

- **Up to 80% savings on herbicides**

- **Improved sustainability with environmentally responsible farming practices**

- **Real-time visibility with FieldOps™, enabling data-driven decisions and traceability**

Customer-First Regional Strategic Partnerships

- **SenseSpray (Australia): Aftermarket cab-mounted Green-on-Brown solution helping Australian farmers reduce herbicide use and improve spraying precision**

- **SaveFarm (Latin America): Aftermarket boom-mounted Green-on-Brown and Green-on-Green solutions delivering advanced weed targeting and input savings across diverse crop systems**

Harvest

Regardless of a farmer's method of harvesting, four things are top-of-mind: getting the most yield, at the highest quality, as quickly as possible at an affordable cost.
CNH machines automatically calibrate and adjust to give farmers consistent output quality, minimal loss, and optimal residue management — making the overall experience less stressful. Maximizing yields every harvest will help to ensure we have enough to feed and clothe our growing world for generations to come.

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Combine, Baler, and Forage Harvester Automation
On CNH machines, automation is everywhere — from header to residue spreader.

[AI] **Combine Automation** *(Case IH Harvest Command™, New Holland IntelliSense™ Combine Automation)* responds automatically to different yield conditions, making the right choice out of **280 million settings every 30 seconds** to improve yield and machine performance. In wheat operations, Combine Automation:

- Earns farmers **~€70 (~$82) more per hectare**
- Harvests **7.4% more tonnes** (metric tons) **per hour***

2018 ASABE AE50 Award Winner

* Based on a representative data sample of aggregated cloud data collected from thousands of CNH connected machines.

Baler *(New Holland IntelliSense™ Bale Automation, IntelliBale™)* and **Self-Propelled Forage Harvester Automation** *(New Holland IntelliSense™, IntelliCruise™)* automatically create high-quality feed by:

- Ensuring the harvester runs at the optimal capacity
- Achieving the set quality standard
- Keeping the machine on the windrow
- Automatically ejecting bales (New Holland IntelliBale™) or filling the forage trailer (New Holland IntelliFill™)
- Monitoring yield, moisture, and nutritional quality

IntelliSense Bale Automation:

 2025 Davidson Prize Award

 2025 ASABE AE50 Award

 2022 Agritechnica Innovation Awards Silver Medal

Corn Header Automation

Award-winning automation and AI on combine corn headers make harvest more efficient by reducing crop losses, boosting throughput, cutting fuel costs, and eliminating manual adjustments. Advanced sensing and control systems optimize harvesting performance in real-time.

 Corn Header Automation – Agritechnica Innovation Awards, 2025 Silver Medal

Kernel Processing Score (KPS) Sensor *(New Holland ForageCam™)*

Livestock herds need to digest starch efficiently. Crushed kernels with a higher KPS help both dairy and beef farmers get higher-quality feed — helping produce higher-quality meat and milk.

CNH's new, 2025 Agritechnica Innovation Silver Medal Award-winning KPS sensor uses a camera, sensors, and AI to help operators detect and improve KPS, **reducing fuel/DEF use by up to 10%** while improving productivity.

 New Holland ForageCam™ – Agritechnica Innovation Awards, 2025 Silver Medal

TOMORROW'S SOLUTION: FILL AUTOMATION

Essentially eliminating crop loss while making every minute count, CNH's advanced trailer filling system for self-propelled forage harvesters will use AI vision-based systems to guide the spout with a 210° range of motion to fill the trailer automatically in real-time without operator input. This:

- **Reduces downtime from inefficient coordination**
- **Minimizes crop loss – no spillage or over-filling**
- **Makes more efficient use of labor and equipment**
- **Helps operators make smarter decisions with FieldOps™**
- **Reduces driver fatigue**

Specialty

In high-value specialty operations such as orchards and vineyards, farmers face mounting challenges: labor shortages, shrinking weather windows, and rising input costs. CNH is developing specialty solutions with autonomy and efficiency, delivering sustainable success.

CNH is a world leader with dominant market share in specialty markets, including **over 50%** share in grapes and **over 90%** in olives in 2024. We are Breaking New Ground by adding innovative machines and automation where they didn't exist before.

AI ✦ New Holland R4 Autonomous Robot family

Helping specialty farmers overcome skilled labor shortages during peak seasons, the R4 Robot series includes two autonomous vehicles — one pure electric and one electric hybrid. These robots execute repetitive, lower-value tasks such as inter-row mowing, tillage, or spraying, where accurate and safe work does not depend on human presence. The cab-less machines are managed via an app and autonomously run by GPS, LIDAR (Light Detection and Ranging) and vision cameras.

AI ✦ Autonomous Solution for CVT Specialty Tractor/Grape Harvester

Adding seamless, integrated autonomy in CNH's most advanced specialty and straddle tractors, as well as grape harvesters addresses labor challenges further by equipping premium machines with the tools to optimize input use and increase yield — straight from the factory.

AI ✦ Stout Cultivator

CNH has a minority investment in Stout, adding their proprietary vision system, neural network and AI expertise to CNH's Sense and Act portfolio. These reduce manual labor and operator stress across row and specialty crops, eliminating weeds with AI-based smart cultivation.

AI ✦ Vision-Guided Apple Picker

With **46%** of apple production costs coming from handpicking labor with constrained availability, shifting to robotic picking has the potential to significantly improve fruit farmers' productivity by harvesting high-value crops **up to five times more efficiently**. CNH's autonomous system uses vision-guided robotics for highly precise fruit picking, improving efficiency in highly specialized high-value operations.
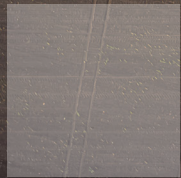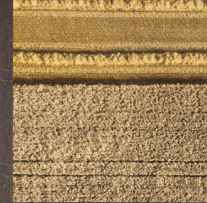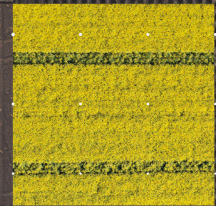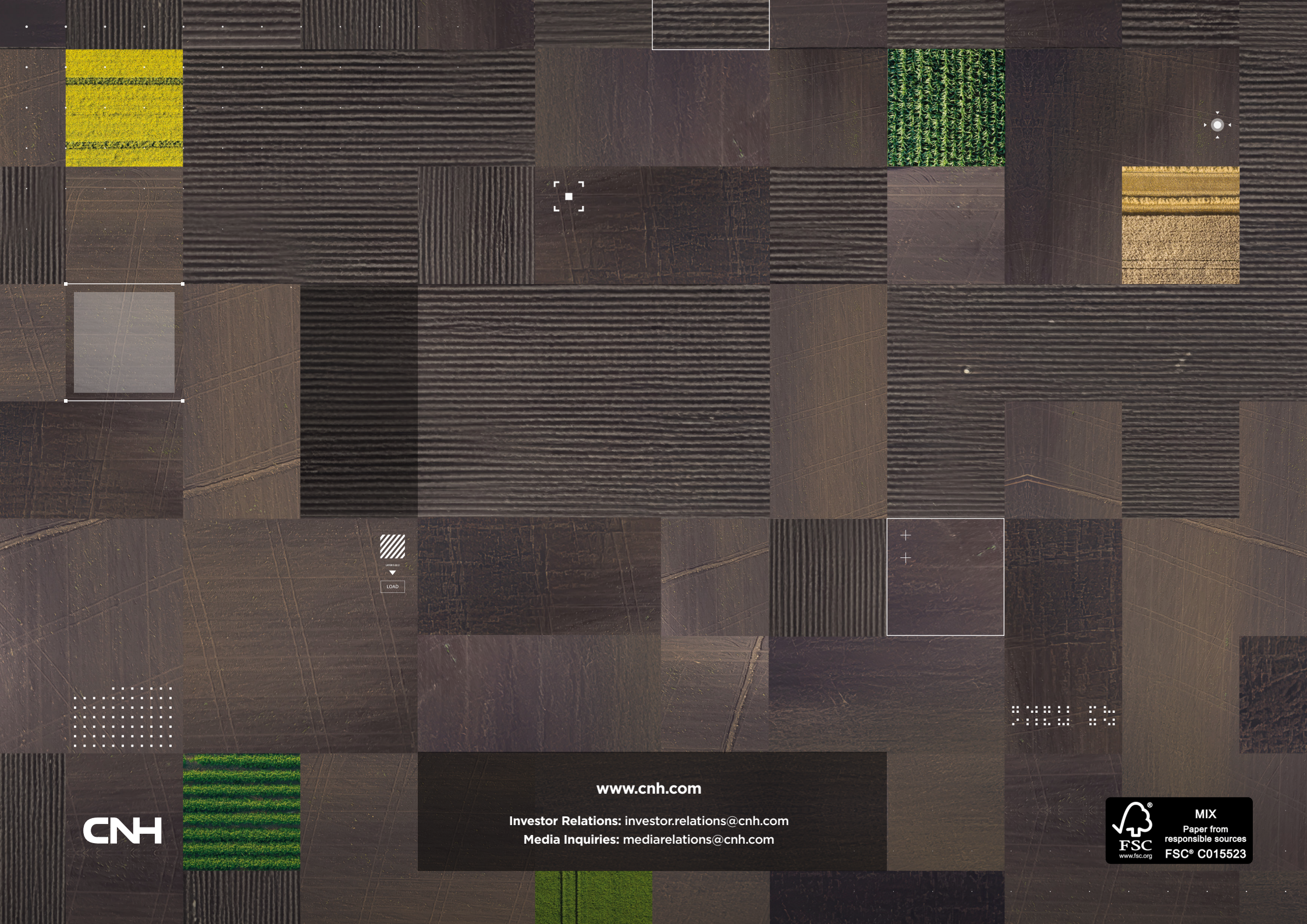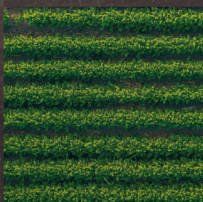
IMPACT

Collectively, CNH's specialty solutions will ensure every orchard, vineyard, and field feeds the future while remaining profitable for farmers.

- Up to **80%** labor reduction
- **100%** CO_2 reduction when using the R4 Electric Power Robot
- **20%** lower Total Cost of Ownership

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