

STORM ⚡ WATCH

CYBERSECURITY NEWS

DateLine: 2024-05-14



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Storm ⚡ Watch by GreyNoise Intelligence

GreyNoise Intelligence

TECHNOLOGY · UPDATED WEEKLY

GreyNoise Storm ⚡ Watch is a weekly podcast and livestream hosted by GreyNoise Intelligence (<https://www.greynoise.io>), a cybersecurity company that focuses on understanding internet noise. The show features hosts b MORE

<https://StormWatch.ing>



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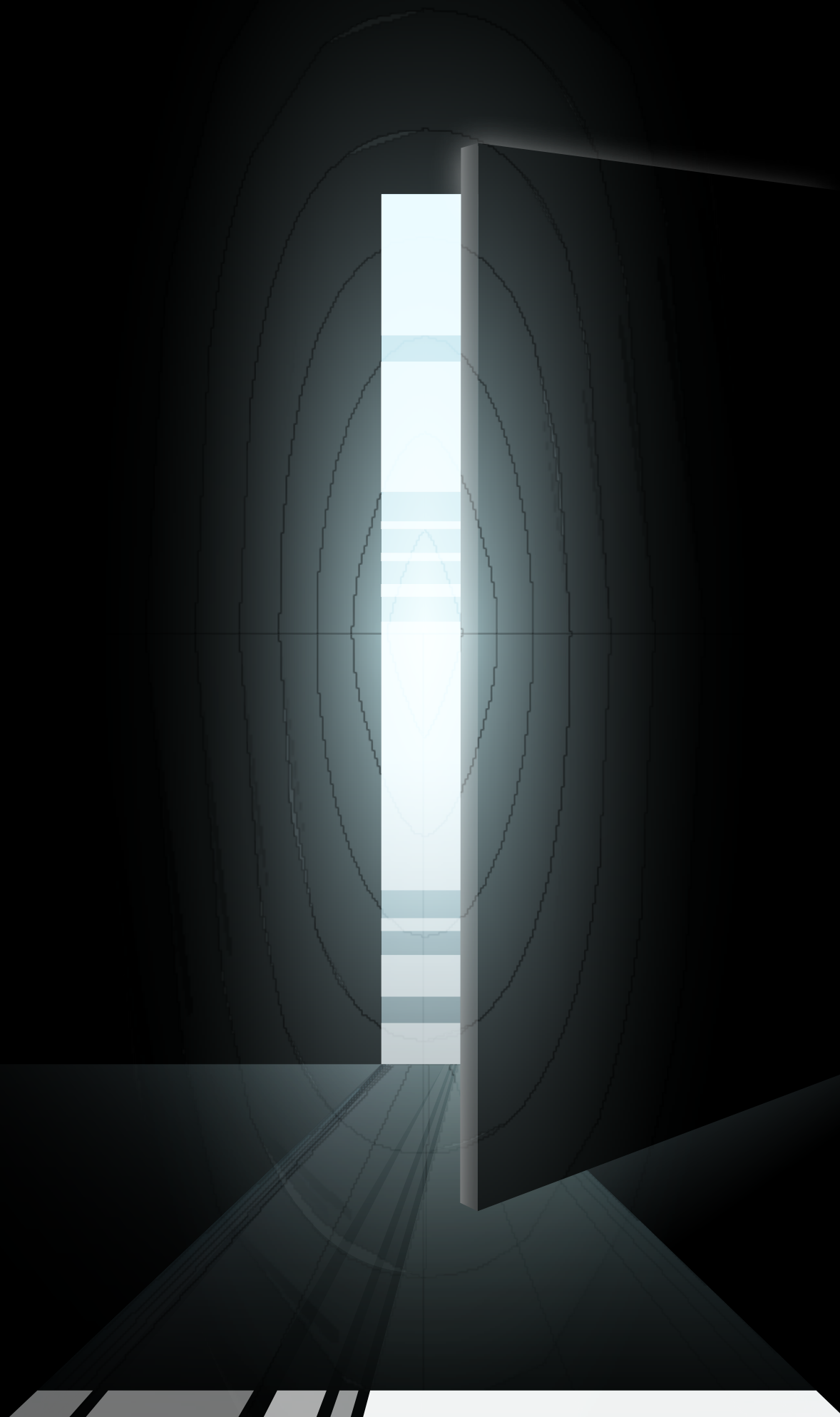
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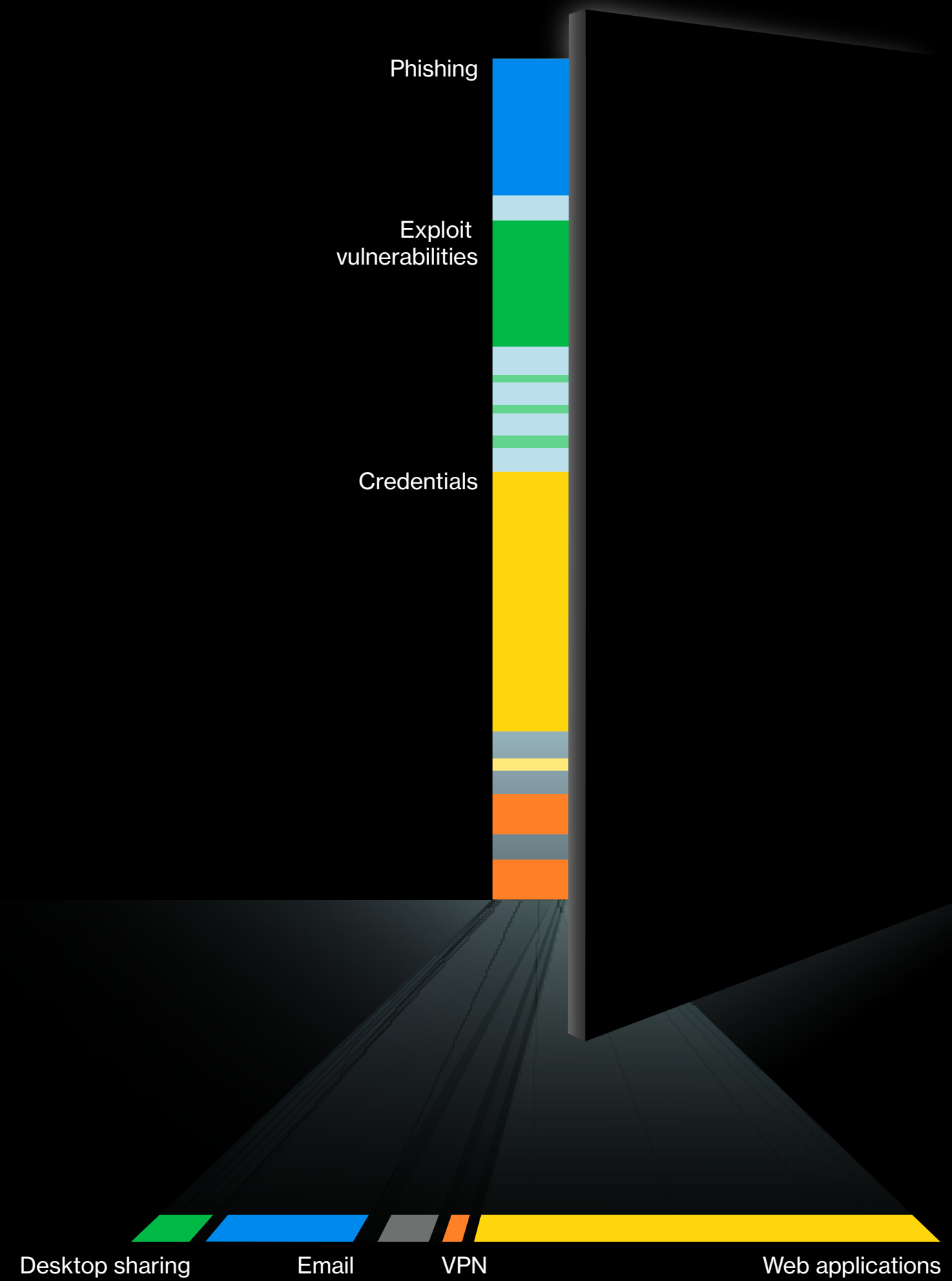
CYBERSIDE CHAT



2024 Data Breach Investigations Report



<https://verizon.com/dbir>





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CYBER SPOTLIGHT



<https://www.404media.co/solar-storm-knocks-out-tractor-gps-systems-during-peak-planting-season/>

TRACTORS

Solar Storm Knocks Out Farmers' Tractor GPS Systems During Peak Planting Season



JASON KOEBLER · MAY 12, 2024 AT 9:39 AM

The accuracy of some critical GPS navigation systems used in modern farming have been "extremely compromised," a John Deere dealership told customers Saturday.





<https://landmarkimp.com/news/news/blog/geomagnetic-storm-affecting-gps-signals--may-2024/>



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- LOCATIONS
- ABOUT US ▾

Geomagnetic Storm Affecting GPS Signals - May 2024

posted on Saturday, May 11, 2024 in [News/Blog](#)

Saturday, May 11 - 9:00am Update:

Yesterday, we sent out a text message advising customers to turn off their RTK and use a grace period of SF2 or SF3. We believe that the SF2 and SF3 accuracy is also extremely compromised as well due to this storm. Due to the way the RTK network works, the base stations were sending out corrections that have been affected by the geomagnetic storm and were causing drastic shifts in the field and even some heading changes that were drastic. Because SF2 and SF3 do not receive all of these corrections, those signals weren't affected as much, but we do suspect that the pass-to-pass accuracy is extremely degraded while still allowing customers to run. **We strongly advise you to keep an eye on your guess rows.** We experienced a pass where the guess row was 10" wide and the receiver was showing a PDOP value of 1.1 which would typically mean good accuracy. This can also affect your section control, but we don't expect it to create any excessively large overlaps or skips - however, the situation at hand is definitely not ideal.

The effects of this storm were more detrimental to the StarFire 3000 and 6000 receivers due to those models only having access to 2 satellite constellations. The StarFire 7000 and 7500s have access to 4 satellite constellations which allowed them to fight through these issues better, but they still lost accuracy. Upgrading to a StarFire 7000 or 7500 will provide an improvement, but is not a cure-all.

To be clear, this isn't a problem with our RTK network. The RTK was affected more due to its ability to have more corrections and it is a higher accuracy system anyway. More corrections coming in that were "bad" created more inaccuracy than we saw in the other systems. The storm has affected all brands of GPS, not solely John Deere.

We are in search of tool to help predict this in the future so that we can attempt to give our customers an alert that this issue may be coming. We do believe this historic event and it isn't something that we are going to have to continue to battle frequently.

When you head back into these fields to side dress, spray, cultivate, harvest, etc. over the next several months, we expect that the rows won't be where the AutoPath lines think they are. This will only affect the fields that are planted during times of reduced accuracy. It is most likely going to be difficult - if not impossible - to make AutoPath work in these fields as the inaccuracy is most likely inconsistent.

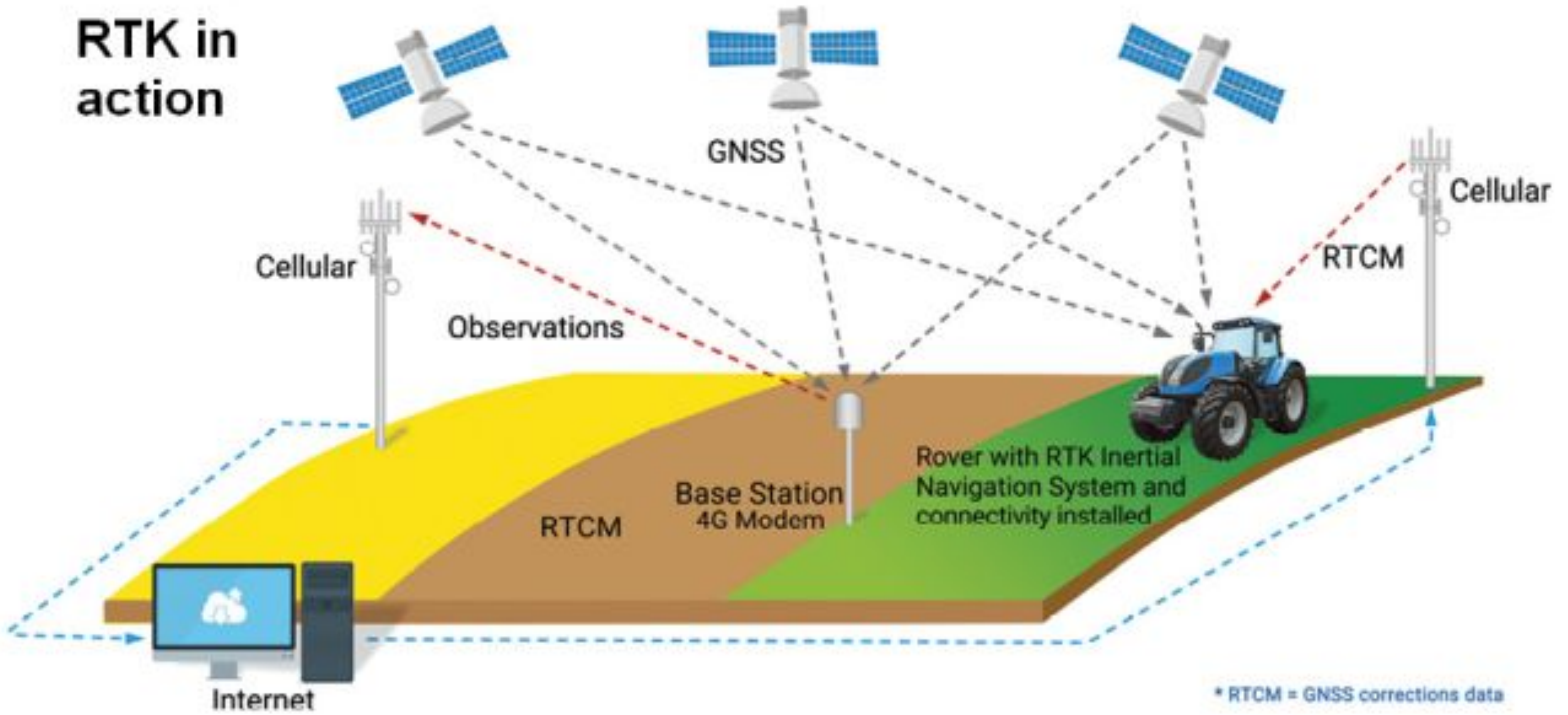
The entire team at LandMark is here to partner with you in this upcoming growing season as we work through this event together. We are committed to helping you find a solution to keep your operation running as smoothly and efficiently as possible. Again, we thank you for your

- CATEGORIES
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 - Service Specials

- RECENT ARTICLES
- Geomagnetic Storm Affecting GPS Signals - May 2024
 - Combine Calibration: Unlock the Full Potential of Your Harvest Technology!
 - John Deere Precision Upgrade Kits from LandMark

- ARCHIVE
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 - 2023
 - 2022
 - 2021
 - 2020

RTK in action

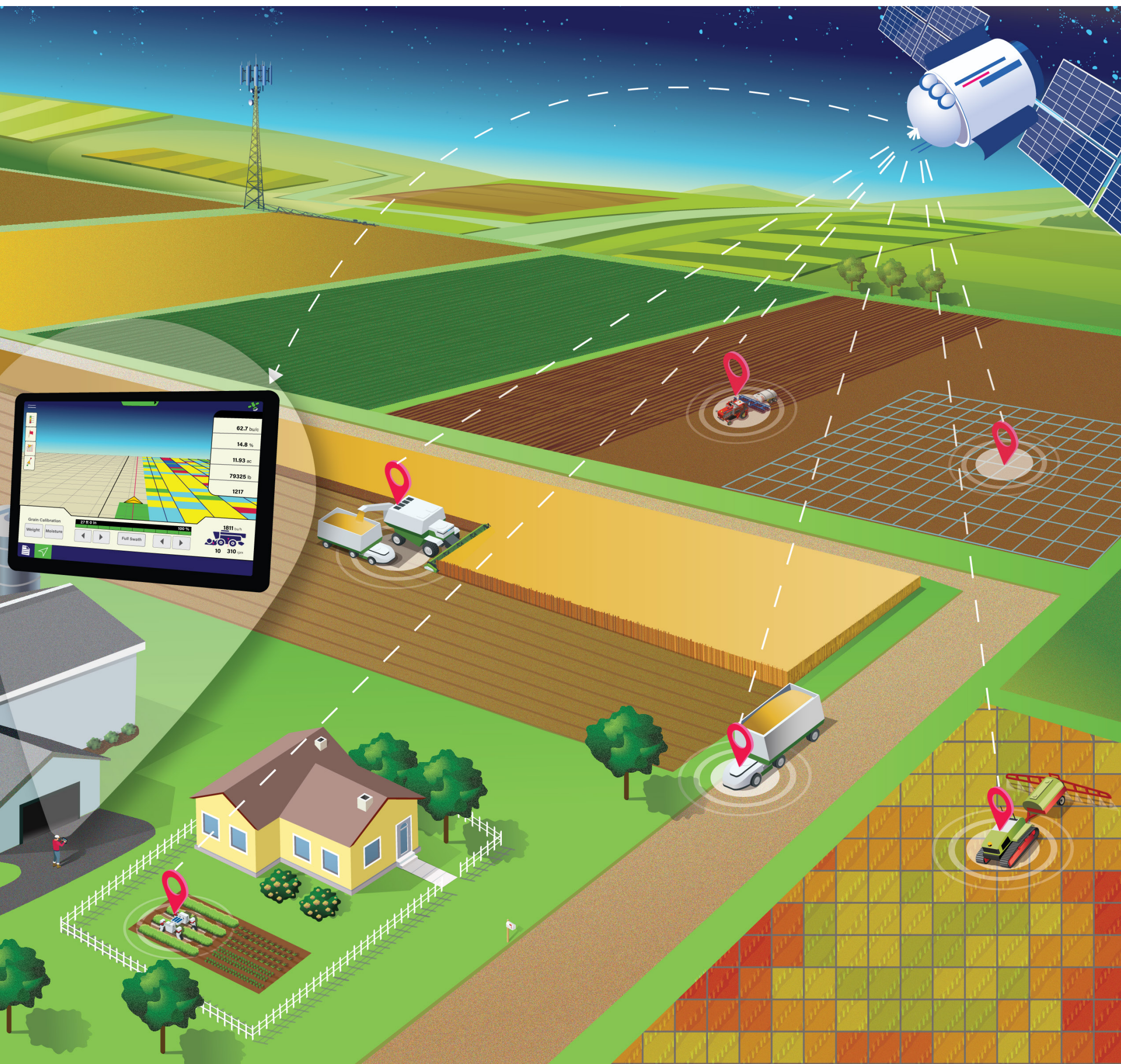


* RTCM = GNSS corrections data



Precision Agriculture in the Digital Era: Recent Adoption on U.S. Farms

Jonathan McFadden, Eric Njuki, and Terry Griffin



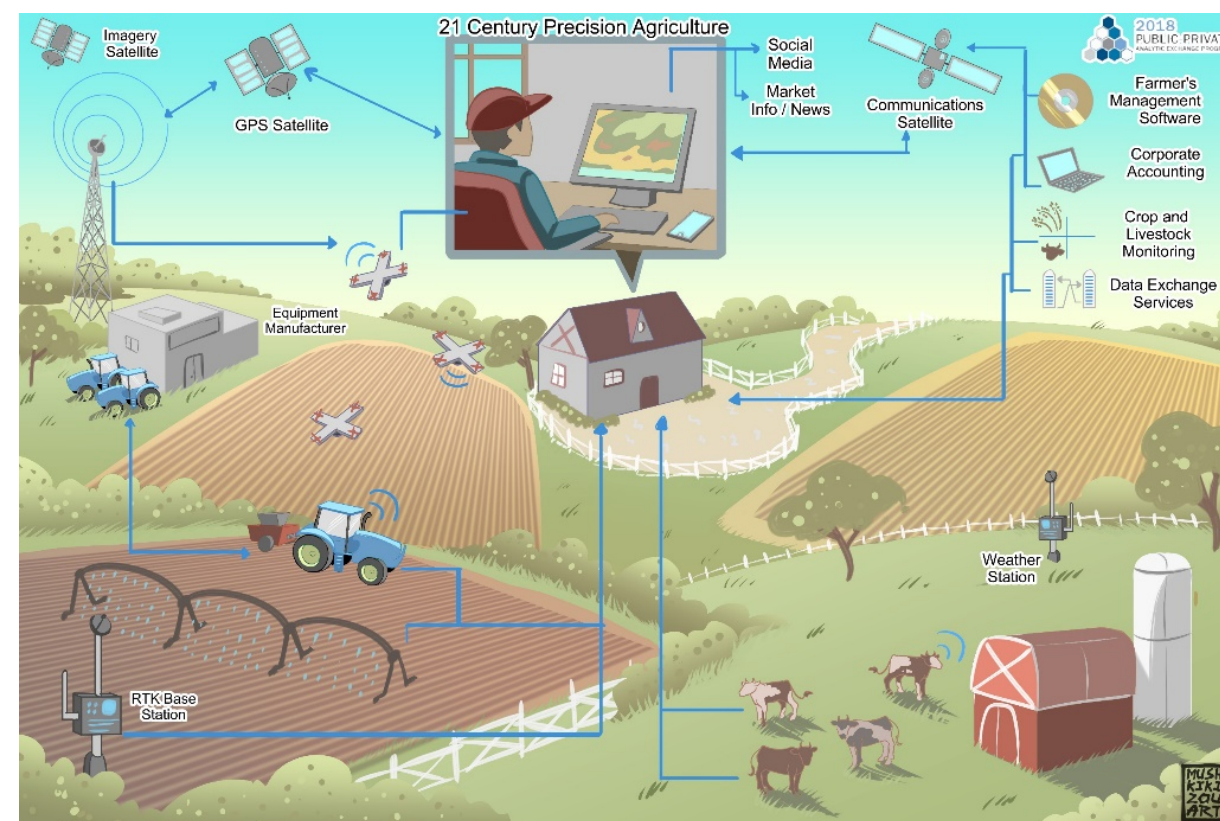
<https://www.ers.usda.gov/webdocs/publications/105894/eib-248.pdf?v=4429.1>

Though their use has been increasing in recent years, technologies such as yield maps, soil maps, and VRT have been adopted on only between 5 and 25 percent of total U.S. planted acreage for winter wheat, cotton, sorghum, and rice. However, adoption of automated guidance has increased sharply in the past 20 years, with application on well over 50 percent of the acreage planted to corn, cotton, rice, sorghum, soybeans, and winter wheat.

<https://static1.squarespace.com/static/55e8e9ece4b09a2da6c9b923/t/5bce1e7ee2c48363bc5d728f/1540234885121/2018+CHS+Threats+to+Precision+Agriculture.pdf>

2018 Public-Private Analytic Exchange Program

Threats to Precision Agriculture



Disruption to positioning, navigation, and timing (PNT) systems

(space based)

Disruption to PNT systems

(ground based)

Feds Issue Warning on Chinese-Manufactured Drones as Farmer Adoption Soars



PHOTO: LINDSEY ROUND

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TOOL TIME



CISA Vulnrichment

<https://github.com/cisagov/vulnrichment>

The CISA Vulnrichment project is the public repository of CISA's enrichment of public CVE records through CISA's ADP (Authorized Data Publisher) container. In this phase of the project, CISA is assessing new and recent CVEs and adding key [SSVC](#) decision points. Once scored, some higher-risk CVEs will also receive enrichment of [CWE](#), [CVSS](#), and [CPE](#) data points, where possible.

Producers and consumers of this CVE data should already be familiar with the current [CVE Record Format](#) and can access this data in the normal ways, including the [GitHub API](#).

How it works

First, CISA will take each CVE through an SSVC scoring process.

Next, for those CVEs that are rated as "Total Technical Impact," "Automatable," or have "Exploitation" values of "Proof of Concept" or "Active Exploitation," further analysis will be conducted. CISA will determine if there is enough information to assert a specific CWE identifier, a CVSS score, or a CPE string.

For those CVEs that do not already have these fields populated by the originating CNA, CISA will populate the associated ADP container with those values when there is enough supporting evidence to do so. In some cases, CISA may also add reference URLs. At no point will CISA overwrite the originating CNA's data in the original CNA container in the CVE record.

SHAMELESS SELF-PROMOTION

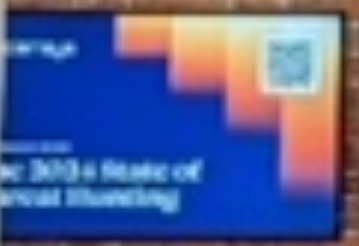




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<https://info.greynoise.io/webinar/ai-for-cybersecurity>

WEBINAR

AI for Cybersecurity: Sifting the Noise

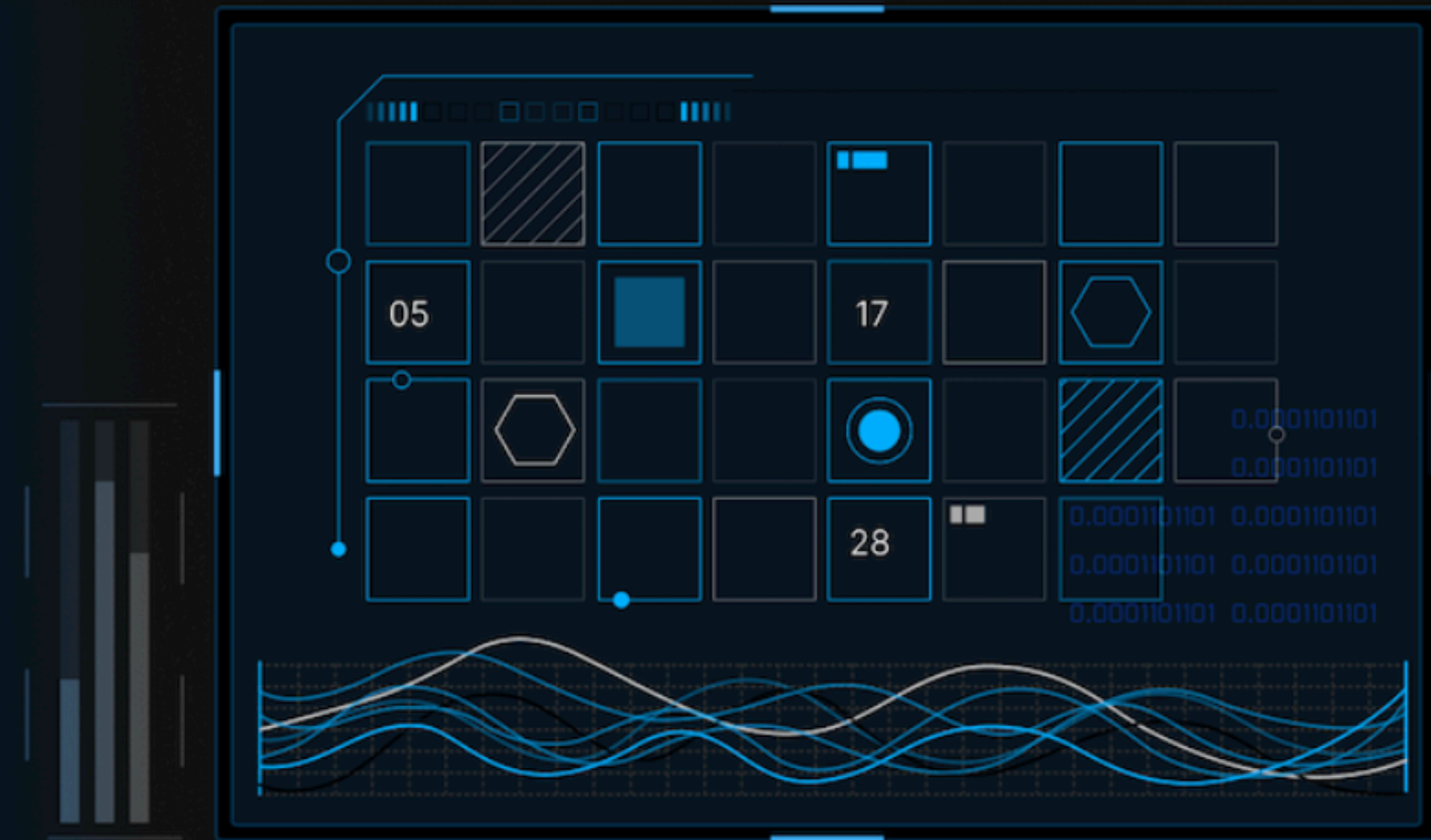
Thursday, May 30th, 1:00pm CT / 2:00pm ET



INSIGHTS

2024 Verizon DBIR: Surviving the Year of the Vuln

boB Rudis | May 2, 2024



2024 VERIZON DBIR



<https://www.greynoise.io/blog/2024-verizon-dbir-surviving-the-year-of-the-vuln>

COMPANY

NetNoiseCon - Recapping our Debut Event

Sam Houston | May 8, 2024



GREYNOISE



RECAPPING OUR
DEBUT EVENT



<https://www.greynoise.io/blog/netnoisecon-recapping-our-debut-event>

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TAG ROUND-UP



- TOTOLINK NR1800 CVE-2022-41518 Command injection RCE Attempt
- Citrix ADC Netscaler Information Disclosure Attempt
- Jira CVE-2008-0885 XXS Check
- F5 BIG-IP CVE-2024-21793 OData Injection Attempt
- F5 BIG-IP CVE-2024-26026 SQLi Attempt

<https://viz.greynoise.io/trends?view=recent>

**WE NEED
TO TALK
ABOUT
KEY**



It Has Been

1

Days Since The
Last KEV Release

<https://kev.hrbrmstr.app>

CVE-2024-4671: Google Chromium Visuals Use-After-Free Vulnerability