From Risk to Resilience

Reimagining Sustainable Sourcing with Earth Intelligence

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From Risk to Resilience: Reimagining Sustainable Sourcing with Earth Intelligence

Sustainable sourcing has become a boardroom priority. Today's business leaders are faced with a growing pressure to demonstrate environmental accountability across global operations. From an operational standpoint, navigating complex supply chains and ensuring sustainability at every stage becomes considerably more challenging when a company finds itself relying on data that lacks context and consistency. Fragmented data, updated regulations, and reputational risk can create a landscape where the cost of making the wrong sourcing decisions can be significant, financially and strategically.

The changing landscapes of data and regulation

No longer a niche concern, the challenge of sourcing sustainably is now imperative to business resilience, stakeholder trust, and regulatory compliance. Navigating this challenge is often costly and resource-intensive, placing significant pressure on sourcing teams that are typically under-resourced and lacking specialised sustainability expertise.

Alongside this, the data landscape has become increasingly overcrowded, with new AI technologies and tools promising high-speed, automated supply chain data. But, without contextual understanding and the cross-referencing of on-the-ground perspectives, more data does not necessarily mean better decisions. More than data-overloading, companies need clarity. True traceability starts with having confidence in the underlying data sources; that means knowing where it comes from, how it is validated, and whether it stands up to legal, audit, and regulatory requirements. In this way, sourcing teams are able to move beyond reactive risk management and instead build sourcing strategies that are proactive, adaptable, and future-proof. This is especially impactful for companies with lean sourcing teams with limited capacity; by reducing the operational burden of troubleshooting unreliable datasets or interpreting complex datasets that may misidentify areas of concern and trigger unnecessary alerts, teams can instead focus on strategic decisions and supplier engagement.

Who is Satelligence?

Sourcing sustainably is not only about meeting today's compliance regulations, it is also about ensuring your business is well-prepared for future updates. For procurement and sustainability teams, this means navigating increasing regulatory pressure, stakeholder scrutiny, and potential supply

chain disruption, all whilst making decisions that impact long-term reputation, market access, and financial strategy.

At Satelligence, we help leading companies not only react to regulation, but be proactive with responsible sourcing decisions in a way that mitigates (existing and potential) risk, contributes to business resilience, and demonstrates measurable ROI. We are a driven and optimistic group of remote sensing experts, software engineers, entrepreneurs, commodity trade professionals and field practitioners dedicated to helping each other and clients navigate the complex world of sustainability monitoring at scale.

Over 25 years ago, our founders were already exploring the frontiers of forest data monitoring and satellite technology. Since then, we have evolved into a global company with advanced geospatial intelligence, trusted by some of the world's largest brands to monitor their supply chains. Thanks to this early adoption of a progressing technology, we were among the first to build robust, scalable systems to detect deforestation and land-use change with confidence, by using Earth Intelligence (a combination of satellite imagery, machine learning, AI, and field data).

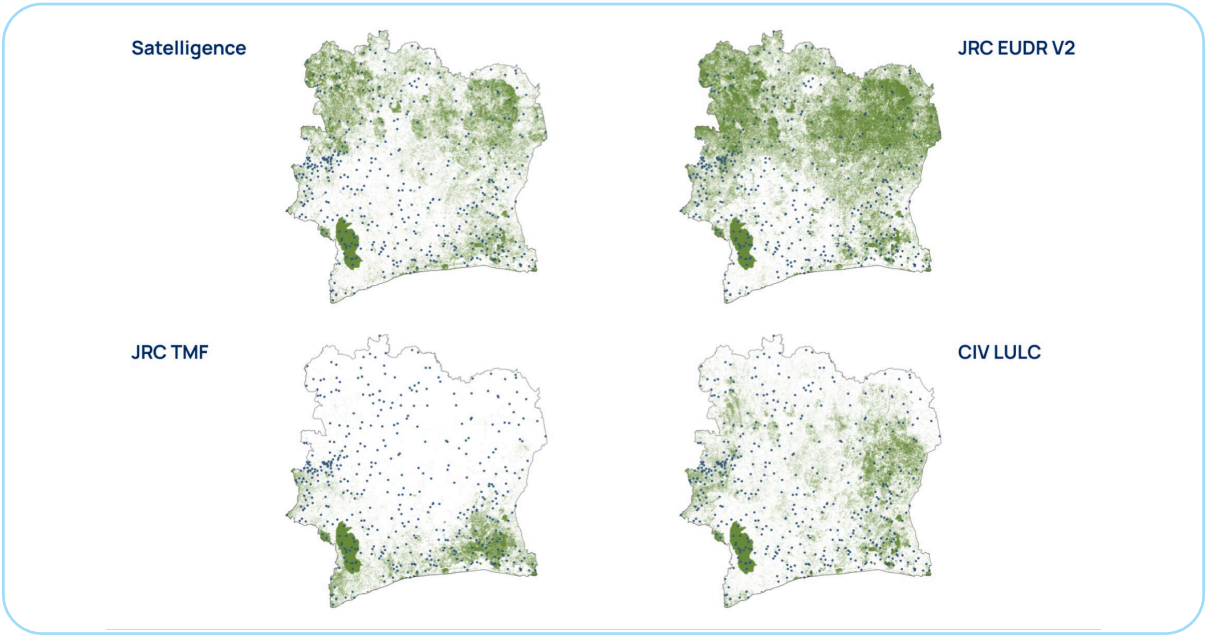
Satelligence goes beyond raw data. Our platform simplifies complexity by connecting the dots between farmers, smallholders, suppliers, and multinationals, and delivering insights that are accurate, consistent, and clear. Across a range of commodities (palm oil, cocoa, coffees, rubber, soy, and more), we offer supply chain visibility that enables sourcing teams to act early, avoid unnecessary mitigation costs and potential fines, stay ahead of compliance obligations, and build future-proof supply chains. In a landscape crowded with fragmented datasets and unverified claims, Satelligence offers a single, reliable source of truth that is backed by decades of experience and trusted by industry leaders.

When is data decision-grade?

Not all datasets are created equal. In high-stakes sourcing decisions, the difference between non-contextualised data and decision-grade insights can mean the difference between compliance and risk.

Today, ESG reporting and deforestation monitoring tools often promise high accuracy through automation and AI. But without field-data validation and deep domain expertise, even the most advanced satellite systems can misidentify issues, trigger irrelevant alerts, or miss critical changes altogether.

Satelligence takes a different approach. Our trajectory has closely followed that of geospatial monitoring; from an under-developed, rudimentary system of manual, local map-processing to an intricate network of satellite imagery, we have been involved in mapping the majority of the forest plots since the 2000s.



Comparison of forest maps in Côte d'Ivoire, green shading indicating natural forest. Here, Satelligence data shows a forest baseline of 93% accuracy in comparison to alternative datasets, namely JRC-EUDR-V2 (77.1% accuracy), JRC-TMF (75.5%), and Côte d'Ivoire's national land cover map (77.5%).

For decades, we have been using advanced machine learning and satellite analytics to monitor land-use change, detect deforestation, and track supply chain risks, delivering highly accurate, reliable, and actionable insights, but they are only part of the equation. We focus on combining technology with deep contextual understanding and experience to help customers navigate industry noise, reduce uncertainty, and make confident, cost-effective decisions.

This contextual depth comes from years of investment in building a robust, trusted global supply chain database. We have pieced together commodity production unit boundaries and ownership datasets through on-the-ground partnerships with local GIS consultants, field teams, NGOs, and government offices. This often involved digitising paper maps and validating data in the field. Our close collaboration with growers, traders, and consumer goods companies ensures continuous data improvement, while NDAs and brokered agreements safeguard data sharing across the chain. Maintaining and updating this data is an ongoing and resource-intensive task, but it is essential to achieving the quality levels required for regulatory compliance and operational insight.

Case study

Your procurement teams need more than just data, and sourcing sustainably isn't only about flagging issues; it is also about finding alternatives. Our platform identifies regions where environmental risk is consistently low, offering new opportunities for responsible growth. By highlighting these stable areas, we enable teams to plan proactively, diversify their sourcing strategies, and build supplier relationships in locations less likely to require future intervention. The result: fewer surprises, more control, and a smarter allocation of time and resources.

One example of how our insights have a tangible impact on procurement decisions is our partnership with Guatemala's Palm

Grower Association, Grepalma. Palm oil has long been associated with deforestation and ecosystem damage, creating barriers for suppliers seeking access to the European market. In Guatemala, a public-private partnership between Grepalma, Satelligence, and government agencies established a comprehensive national monitoring system using independent satellite data and on-the-ground verification.

This approach provided concrete, third-party verified evidence that Grepalma's members comply with the upcoming EU Deforestation Regulation (EUDR) by maintaining deforestation-free production. Rather than relying on promises, this transparency built trust with European buyers and demonstrated accountability. The outcome was a remarkable growth in Guatemalan crude palm oil exports to Europe in 2024, underscoring how credible, audit-ready data can unlock market opportunities and drive business growth.

For procurement leaders, this highlights how trusted, independently validated Earth Intelligence can de-risk sourcing, facilitate compliance, and unlock new, resilient supply options, all of which are critical to sustaining growth in an evolving regulatory landscape.

Selecting the right data source for regulatory compliance

The European Union Deforestation Regulation will require full traceability and proof that key commodities, such as palm oil, soy, coffee, and cocoa, are deforestation-free and legally produced. Failure to comply with these requirements by 30th December 2025 has severe consequences, such as the seizure of non-compliant product, exclusion from the European market, reputational damage, and fines of up to 4% of a company's annual EU turnover.

As the most stringent regulation of its kind, the EUDR goes beyond the stipulations of preceding regulations such as the EU Timber Regulation. Setting a new benchmark for supply chain accountability, it will require mandatory due diligence for every consignment, demand precise geolocation coordinates of the plots where commodities are produced, and enforce a strict cut-off date of 31st December 2020, meaning any products linked to deforestation after this date will be deemed non-compliant. The regulation also has global reach, meaning that international supply chains with non-EU entities must also meet these EU standards in order to retain access to the market.

Never before has it been so vital for a company to have a transparent and holistic view of its supply chain and operations. This level of scrutiny calls for more than automated alerts and black-box platforms; it requires data that is consistent, independently validated, and audit-ready. For sourcing teams, that means choosing a data partner whose methodologies are proven and verified.

Confidence in your supply chain data comes from clarity, consistency, and independent validation, rather than volume or complexity. So, how can you be sure the data you rely on is truly fit for purpose? Look for third-party verification, audit transparency, and a track record of reliability at scale.

Satelligence deforestation and carbon accounting methodologies are certified under the internationally recognised Ernst & Young ISAE 3000, meaning that our insights are technically robust and audit-ready. We are the first provider globally to achieve this level of certification for deforestation data. Furthermore, a recent independent accuracy assessment by the International Center for Tropical Agriculture (CIAT) reaffirmed the high forest baseline accuracy of Satelligence's data. This third-party validation further demonstrates the reliability and scientific rigour underpinning Satelligence's solutions.

The EUDR raises the bar (and the burden) for data confidence. Satelligence delivers the certainty that is needed for companies to comply, compete, and scale responsibly.

CONCLUSION

Building resilience through better data

As regulatory pressure intensifies, expectations around transparency rise and so do the financial and reputational stakes of getting it wrong. But, with a robust data infrastructure

companies can feel confident and well-prepared for whichever way the market shifts. By investing in insights that are validated, audit-ready, and rooted in real-world context, procurement teams can make decisions that reduce long-term exposure to risk, avoid the costs of non-compliance, and strengthen operational resilience across global supply chains.

Here, the business case for a grounded, integrated intelligence approach becomes clear. By combining satellite data and AI/ML tools with deep in-house expertise and long-standing partnerships on the ground, Satelligence ensures that companies gain a consistent, contextualised source of truth that supports strategic planning, supplier engagement, and continuous improvement to stay agile in a changing regulatory landscape.

If your business is ready to move from managing risk to building resilience, Satelligence is ready to support you.

To see how leading enterprises are building more resilient, transparent supply chains using Satelligence's geospatial and risk intelligence solutions, visit www.satelligence.com. Or reach out directly to our team at info@satelligence.com to start the conversation.

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About Satelligence

Satelligence is the global leader in satellite-powered sustainability intelligence, helping companies monitor and manage environmental risks across their commodity supply chains. Trusted by over 70% of global palm oil and cocoa companies, as well as the largest coffee and soy traders and the top five global food corporations, Satelligence provides real-time, third-party verified geospatial insights that drive performance, mitigate risk, and ensure compliance with evolving regulations such as the EU Deforestation Regulation (EUDR) and Scope 3 emissions reporting.

By combining high-resolution satellite data, ground-truthing, and advanced analytics, Satelligence enables organizations like Mondelez, Unilever, Bunge, Cargill, and Rabobank to move beyond monitoring—toward actionable sustainability, supplier accountability, and measurable impact. With Satelligence, industry leaders gain the visibility and strategic foresight needed to future-proof operations in an era of climate accountability.

With offices in Utrecht, Jakarta, Abidjan, and São Paulo, we're committed to protecting businesses, people, and the planet.