

Structured intelligence for global supply chains

The Problem

Supply chain disruptions are rarely invisible. Signals across news wires, commodity markets, government statements, and social media often surface days or weeks before reaching the desk of the person responsible for acting. COVID-19 demonstrated this at scale: research shows that firms with structured early warning processes detected deteriorating conditions while others failed – not because they had unique information, but because they had the structure to interpret it. The problem is not a lack of information; it is the absence of structure.

Enterprise risk and supply chain intelligence has grown around signal volume and alert throughput. What has not kept pace is coherence: a principled framework for connecting global events to downstream implications for commodities, facilities, and logistics. Industry analysis consistently identifies alert noise, entity resolution failures, and interpretation complexity as the defining market pain points – symptoms of an approach built around surfacing more data rather than making data meaningful.

What Knovolo Does

Knovolo is a structured event intelligence platform for supply chain and procurement teams. It continuously ingests heterogeneous public sources – news, government records, social media, commodity markets– and evaluates them against a structured world model of known actors, facilities, infrastructure, and commodity dependencies.

Customers build their supply chain on a geographic canvas – adding facilities, suppliers, commodities, and transit routes as nodes – and Knovolo monitors the world around what they have built. Events are not surfaced as raw alerts. They are contextualised against the customer's specific network, scored for plausibility across independent sources, and traced to their causal origins.

Underpinning this is Convergent Signal Confirmation (CSC), a formal framework for causal commodity inference. When signals indicate potential disruption to a critical raw material, CSC maps the producing actors, generates competing hypotheses about the form of disruption, and scores each against observed market behaviour. The output is a continuously updated, evidence-weighted picture of which scenarios are gaining or losing empirical support – giving procurement teams structured situational awareness rather than undifferentiated alerts.

What Makes Knovolo Different

- **Architectural Facility-Level Resolution:** Knovolo is built to map events directly to precise geographic coordinates and specific facilities, rather than relying solely on parent company names.

- **Rapid Canvas Onboarding:** Our onboarding framework is built for immediate deployment. Customers can manually construct regional networks on the interactive canvas or upload existing databases through an automated entity-resolution layer that canonicalizes records against our baseline master data.
- **A Methodology of Plausibility Over Volume:** Instead of exposing teams to undifferentiated alert density, Knovolo filters signals through a structured world model. Our Convergent Signal Confirmation (CSC) framework scores incoming signal clusters based on regional priors, source credibility, and cross-source corroboration, ensuring visibility is driven by evidential coherence.
- **Native CSDDD Compliance Scaffolding:** Developed with the regulatory realities of European supply chains in mind, Knovolo's workflows are natively aligned with the Corporate Sustainability Due Diligence Directive. The platform architecture provides the audit-ready scaffolding required for recurring risk identification (Article 8) and human-in-the-loop mitigation workflows (Articles 9–16) tied directly to canvas nodes.
- **EU-Sovereign & On-Premise Relay Design:** To ensure absolute data privacy, our core intelligence infrastructure is hosted exclusively on EU-based Hetzner servers. Furthermore, customer-specific network evaluations are architected to run via a secure relay connector inside the user's own infrastructure—meaning your internal supply chain topology and derived insights never have to leave your secure environment.

Where We Are

Knovolo is approaching finalised development and is expected to pilot in Q3 2026. The Structured World Awareness architecture is complete and documented in a published whitepaper; the CSC framework is formalised in a forthcoming research paper. The underlying pipeline is finalised and running, currently producing events that await the final integration of market plausibility scoring and narrative alignment analysis.

We are not yet raising a formal round. Instead, we are building relationships with investors who understand research-grounded enterprise B2B systems, and with organisations willing to engage early as pilot partners or advisors. Early adopters shape what gets built and gain access ahead of general availability.

What We Are Looking For

- Pilot partners from EU manufacturing or procurement willing to shape the product ahead of general availability.
- Strategic advisors with supply chain, procurement, or compliance experience.
- Angels and pre-seed investors with enterprise B2B exposure, ahead of a formal round.

Structured intelligence for an unstructured world.

Knovolo is building the data layer that connects global events to the supply chains, commodities, and infrastructure they affect – turning fragmented public information into plausibility-scored, causally contextualised intelligence.

The world is producing signal. Knovolo builds the structure to read it.

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Whitepaper: knovolo.com/whitepaper.pdf