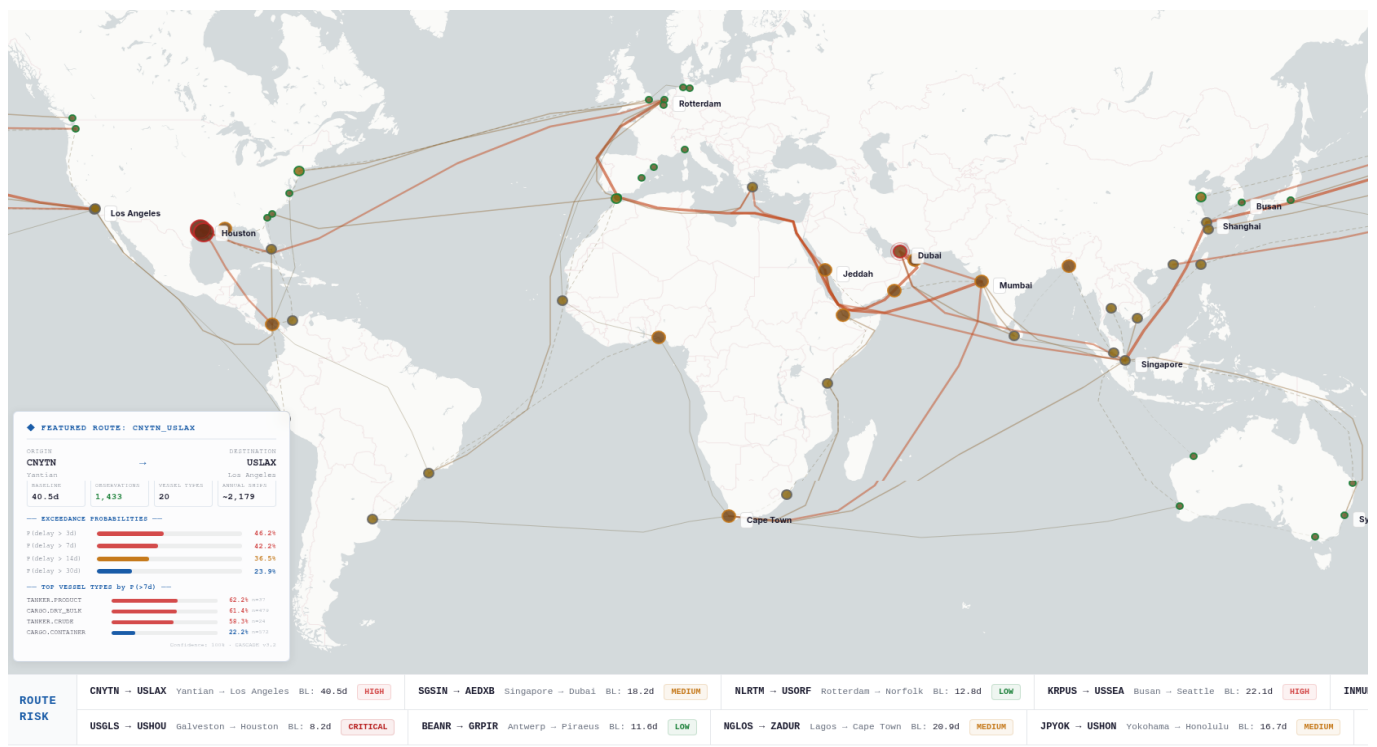


# TRADE DISRUPTION RISK ANALYTICS

Supply chain risk is global, complex, non-linear, and rapidly increasing in the face of compounding climate, geopolitical, and security threats. Perhaps the least understood facet of this risk is how disruptions cascade across the network of component flows from raw materials through to end consumers. Our analytics fully quantify physical trade network risk for the first time.



**More than 2,000 ports** Our disruption analytics provide probabilistic delay risks at over 2,000 ports, including impact metrics for all vessel types at both the import and export level.

**More than 10,000 trade lanes** We deliver likelihood of delay across a range of probabilities by vessel type for all shipping routes used in the transport of global goods, capturing vessel type and seasonal variations.

**28 vessel classes** All route-level analytics are available for a variety of vessel types and conditioned by seasonal variations, enabling high-level analysis of commodities and container flows across every stage of booking.

## Use Cases

- **Insurers** – use our suite of disruption analytics to assess risk and price policies competitively with quantitative functions
- **Commodity firms** – make informed forward-looking decisions on trade routes using our vessel-level data conditioned by seasonal factors
- **Operations and logistics teams** – avoid operational disruption through proactive indications of route-level disruptions influencing your supply chain network risk

## Delivery

- SFTP (CSV, Parquet), Snowflake Data Share and API (indicative data subset shown below)
- Daily t+1 updates available, entire backtest history available on request

route_id	vessel_type	goods_type	confidence	p_7d	n_obs
CNSHK_JPOSA	CARGO.CONTAINER	GENERAL.CONTAINERIZED	high	0.294	1,158
CNSHK_JPOSA	CARGO.DRY_BULK	MINERALS	medium	0.489	1,158
KRPUS_USLAX	CARGO.CONTAINER	GENERAL.CONTAINERIZED	low	0.358	1,158

port	name	dir	routes	p_7d	p_99	n_obs
SGSIN	Singapore	export	154	0.243	99.7	609,819
SGSIN	Singapore	import	157	0.199	94.7	426,823
NLRMT	Rotterdam	export	87	0.281	100.4	523,492

### **About N4EA**

*N4EA leverages proprietary technology to power next-generation supply chain intelligence. We provide a suite of analytics that quantify the cascading impacts of maritime network disruptions, transforming geopolitical, extreme weather, and chokepoint events into projected future states for vessels, ports, and shipping routes.*

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