

**MEDSSURPLUS**  
204 Saint Charles Way  
York PA 17402

+1 (571) 593-8182

sales@medssurplus.com  
exports@medssurplus.com



[www.medssur.com](http://www.medssur.com)



# GLOBAL INTELLIGENCE FOR PREDICTING MEDICAL SUPPLY SHORTAGES

Empowering distribution partners with early-warning insights to strengthen supply reliability, customer trust, and market resilience.

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## THE OPPORTUNITY

# Medical supply chains are under unprecedented pressure.

- Rising demand volatility
- Increasing frequency of drug and device shortages
- Global logistics disruptions
- Fragmented visibility across regions
- Growing expectations for reliability and transparency

Distribution partners who can **anticipate disruptions** gain a **decisive competitive advantage**.

## THE OPPORTUNITY

# Shortages are often discovered too late.

### TRADITIONAL MONITORING IS

- Reactive
- Siloed
- Slow
- Dependent on manual reporting
- Blind to early warning signals

### THIS LEADS TO

- Stock-outs
- Emergency sourcing
- Customer dissatisfaction
- Lost revenue
- Reputational risk



## OUR SOLUTION

# MedSight AI: A Predictive Intelligence Layer for Medical Supply Resilience

We provide distribution partners with **early, actionable insights** into emerging shortages across global markets.

## What Medssurplus **Delivers**

- For Hospitals, Health Systems and Dental Providers
- For Governments & Public Health Agencies
- For Manufacturers & Distributors
- NGOs & Global Health Organizations
- Illustrative Impact Scenarios
- Pharmaceuticals & Clinics



## Principles

### Board Advisor/Leader: Tim Flynn

Military Veteran/Leader: Navy, Airforce and Army with long standing electronics, network, cloud, cyber and software engineering career.

### Board Advisor: Ron Burgess

Board Advisor: Airforce with long standing Information Technology and security career.

### Board Advisor/Leader: Tim Iluyomade

Board Advisor/Leader: Army with long standing Information Technology and Software Engineering career.

### Board Advisor/Leader: Devon Carter

Board Advisor: Navy with long standing aeronautics, aviation and mechanical engineering background career

### Pr. David Mpochera:

Advisor, Counselor, Leader: Recognized for his critical and visionary leadership

## HOW IT WORKS (HIGH-LEVEL TECHNICAL OVERVIEW)



### Multi-Domain Data Ingestion

Non-identifiable signals from :

- Procurement trends
- Logistics timelines
- Manufacturing indicators
- Macroeconomic and geopolitical context
- Public health and environmental factors



### Risk Modeling & Prioritization

Outputs include :

- Likelihood of shortage
- Severity
- Time horizon
- Drivers and contributing factors



### Signal Processing & Pattern Recognition

Identifies anomalies, correlations, and trend deviations.



### Delivery Layer

Dashboards, alerts, heat maps, and product-level insights.





## Why Distribution Partners Benefit



### Strengthen Customer Trust

Provide proactive communication and transparency.



### Improve Allocation Decisions

Prioritize high-risk regions and customers before shortages escalate.



### Reduce Emergency Costs

Avoid last-minute sourcing and premium freight.



### Enhance Operational Planning

Align production, warehousing, and logistics with forward-looking risk.



### Differentiate in a Competitive Market

Provide proactive communication and transparency.

## Use Cases For Distribution Partners



### Early Demand Shift Detection

Spot unusual ordering patterns before they strain supply.



### Production & Allocation Optimization

Use risk signals to guide manufacturing and distribution priorities.



### Customer Communication Support

Share credible, data-driven insights with hospitals and agencies.



### Regional Risk Forecasting

Use risk signals to guide manufacturing and distribution priorities.





# Platform Features

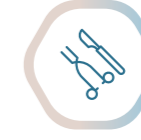
-  Predictive shortage detection
-  Global supply chain visibility
-  Risk-ranked alerts
-  Scenario modeling
-  Role-based dashboards
-  API integrations
-  Enterprise-grade security
-  Privacy-preserving design

# Impact Examples



## Oncology Drug Stability

Early detection of manufacturing delays allowed distributors to rebalance inventory and prevent stock-outs across multiple regions.



## Surgical Consumables

Logistics anomalies identified months ahead enabled proactive allocation and reduced emergency shipments by 40%.



## Vaccine Distribution

Geopolitical risk signals supported early re-routing and protected immunization programs in vulnerable areas.



# Partner Value Proposition

Together, we can build a more resilient medical supply ecosystem.



Medssurplus enables **distribution partners to:**

- Deliver unmatched reliability
- Strengthen customer relationships
- Reduce operational risk
- Expand market leadership
- Support global health resilience

# Partnership Models



## Intelligence Integration Partnership

Embed MEDSSURPLUS insights into your internal planning workflows.



## Co-Branded Customer Intelligence Program

Offer predictive insights as a value-added service to your customers.



## Strategic Supply Resilience Collaboration

Joint initiatives to improve regional and national preparedness..

