

# KI als Schlüssel zu zukunftssicheren Lieferketten: Die Verbindung von Compliance, Risikomanagement und Transparenz



**Jonas Artmeier**  
Vice President – Advisory

---

**Prewave 2024** in numbers.

---

**180** **Employees**

41 nationalities - 37% female

---

**200+** **Customers**

23 countries - Covering all major industries

# 200+ active customers, covering all major industries.

## Automotive



SCHAEFFLER

## Appliances / Electronics



HILTI

## Retail



CONRAD

## Food & Beverage



## Construction



## Energy



## Services



UniCredit Bank



## Pulp & Paper



## Chemicals



**Prewave 2024** in numbers.

---

**180** **Employees** 41 nationalities - 37% female

---

**200+** **Customers** 23 countries - Covering all major industries

---

**11.000** **Users** 50% customers, 50% suppliers

---

## Prewave 2024 in numbers.

---

<b>180</b>	<b>Employees</b>	41 nationalities - 37% female
<b>200+</b>	<b>Customers</b>	23 countries - Covering all major industries
<b>11.000</b>	<b>Users</b>	50% customers, 50% suppliers
<b>25.000+</b>	<b>Actions</b>	1. SSA / CoC, 2. Statement requests, 3. Awareness trainings

---

## Prewave 2024 in numbers.

---

<b>180</b>	<b>Employees</b>	41 nationalities - 37% female
<b>200+</b>	<b>Customers</b>	23 countries - Covering all major industries
<b>11.000</b>	<b>Users</b>	50% customers, 50% suppliers
<b>25.000+</b>	<b>Actions</b>	1. SSA / CoC, 2. Statement requests, 3. Awareness trainings
<b>40.000+</b>	<b>Alerts</b>	300+ per day

---

---

## Prewave 2024 in numbers.

---

<b>180</b>	<b>Employees</b>	41 nationalities - 37% female
<b>200+</b>	<b>Customers</b>	23 countries - Covering all major industries
<b>11.000</b>	<b>Users</b>	50% customers, 50% suppliers
<b>25.000+</b>	<b>Actions</b>	1. SSA / CoC, 2. Statement requests, 3. Awareness trainings
<b>40.000+</b>	<b>Alerts</b>	300+ per day
<b>1.3m</b>	<b>Suppliers</b>	150+ countries – 27% GER, 12% US, 8% CN, ...

---

---

## Prewave 2024 in numbers.

---

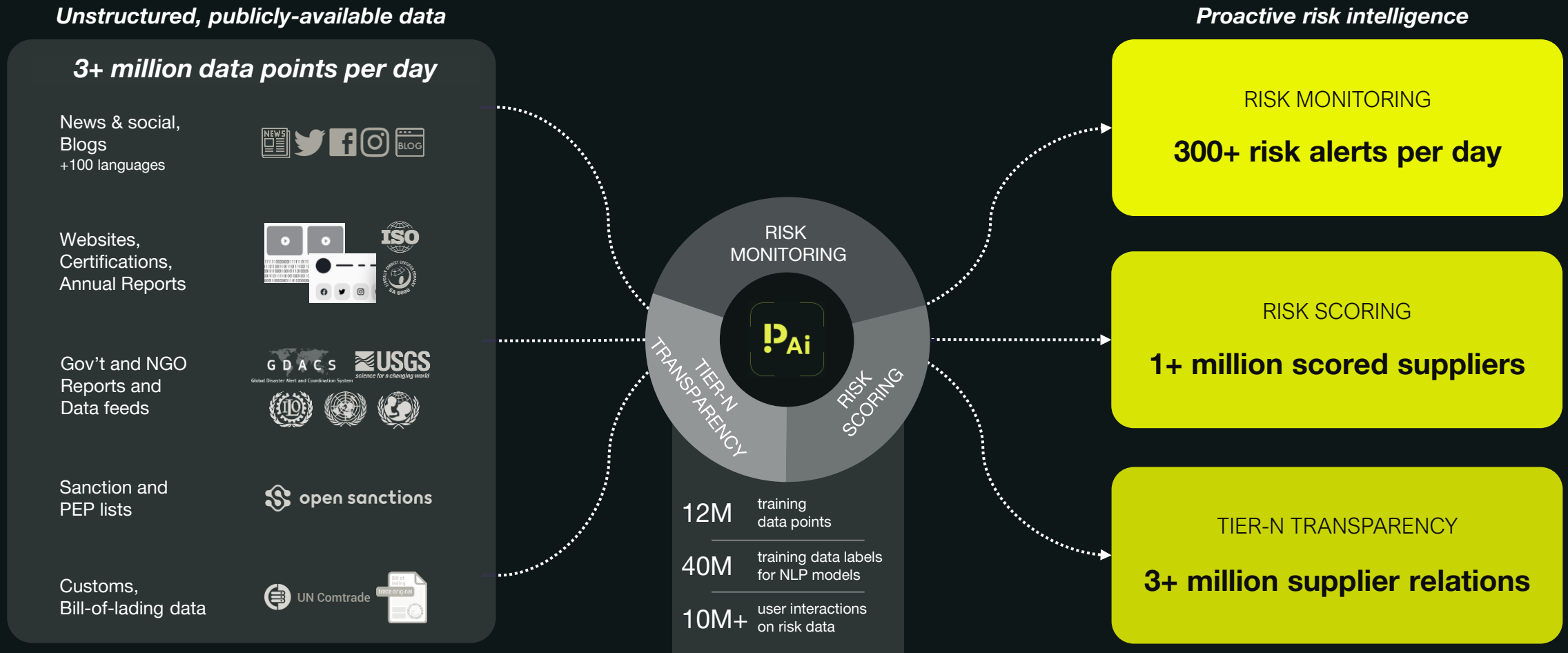
<b>180</b>	<b>Employees</b>	41 nationalities - 37% female
<b>200+</b>	<b>Customers</b>	23 countries - Covering all major industries
<b>11.000</b>	<b>Users</b>	50% customers, 50% suppliers
<b>25.000+</b>	<b>Actions</b>	1. SSA / CoC, 2. Statement requests, 3. Awareness trainings
<b>40.000+</b>	<b>Alerts</b>	300+ per day
<b>1.3m</b>	<b>Suppliers</b>	150+ countries – 27% GER, 12% US, 8% CN, ...
<b>30m</b>	<b>Funding</b>	All European VCs

---



# Resilient, transparent, and sustainable supply chains

Enabled by **Superintelligence**.





---

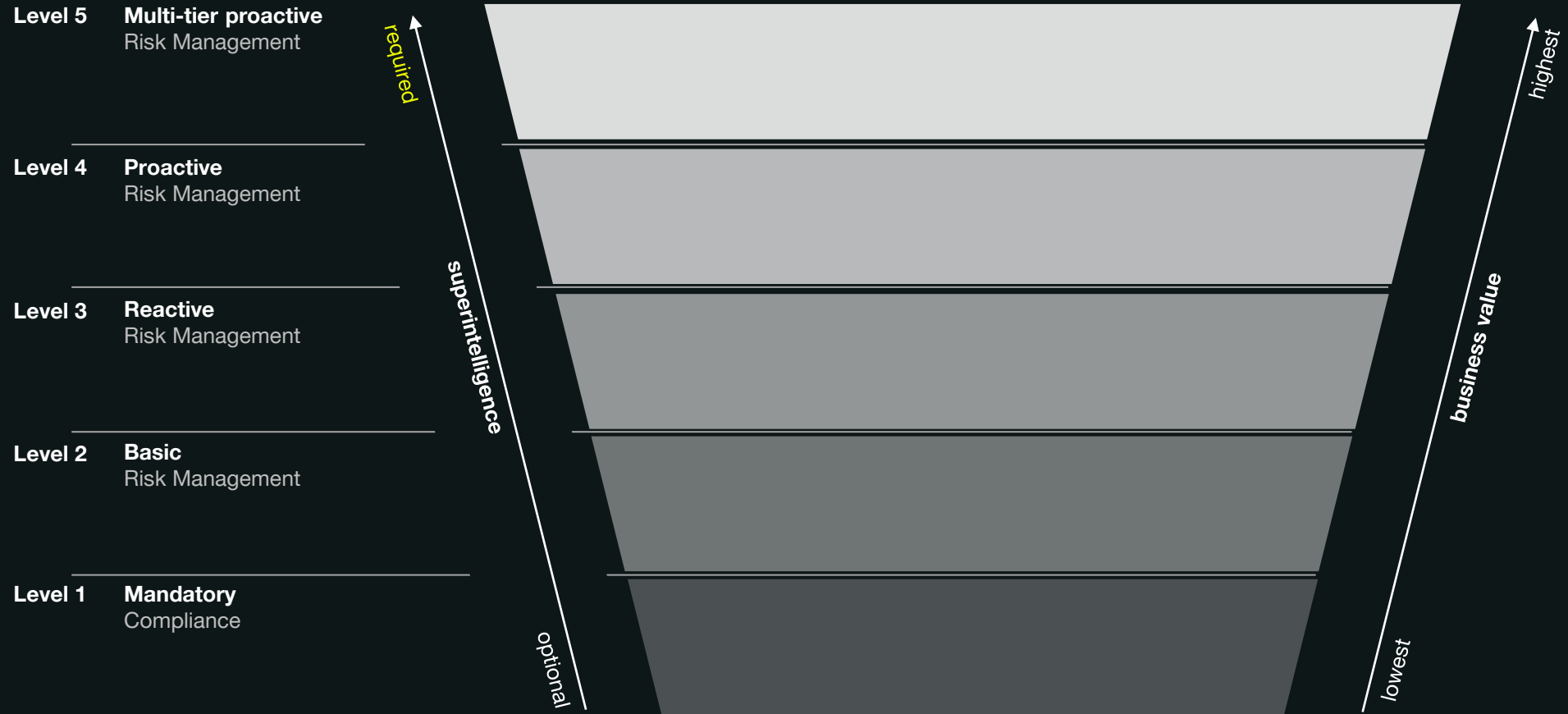
**Supply chain **superintelligence**.**

**Empowering **human intelligence**.**

**Enabling **business value**.**

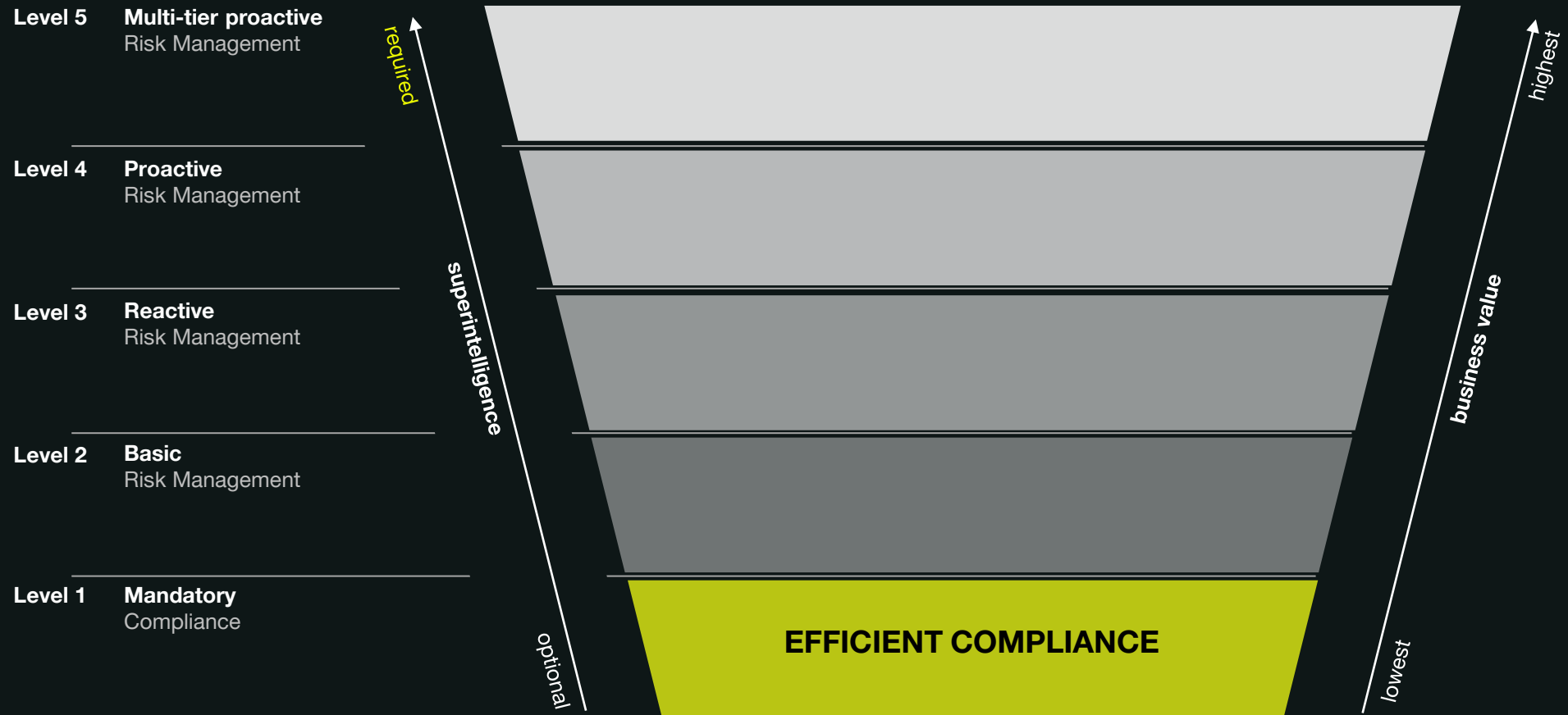
# Supply chain **superintelligence**.

Enabling **business value**.



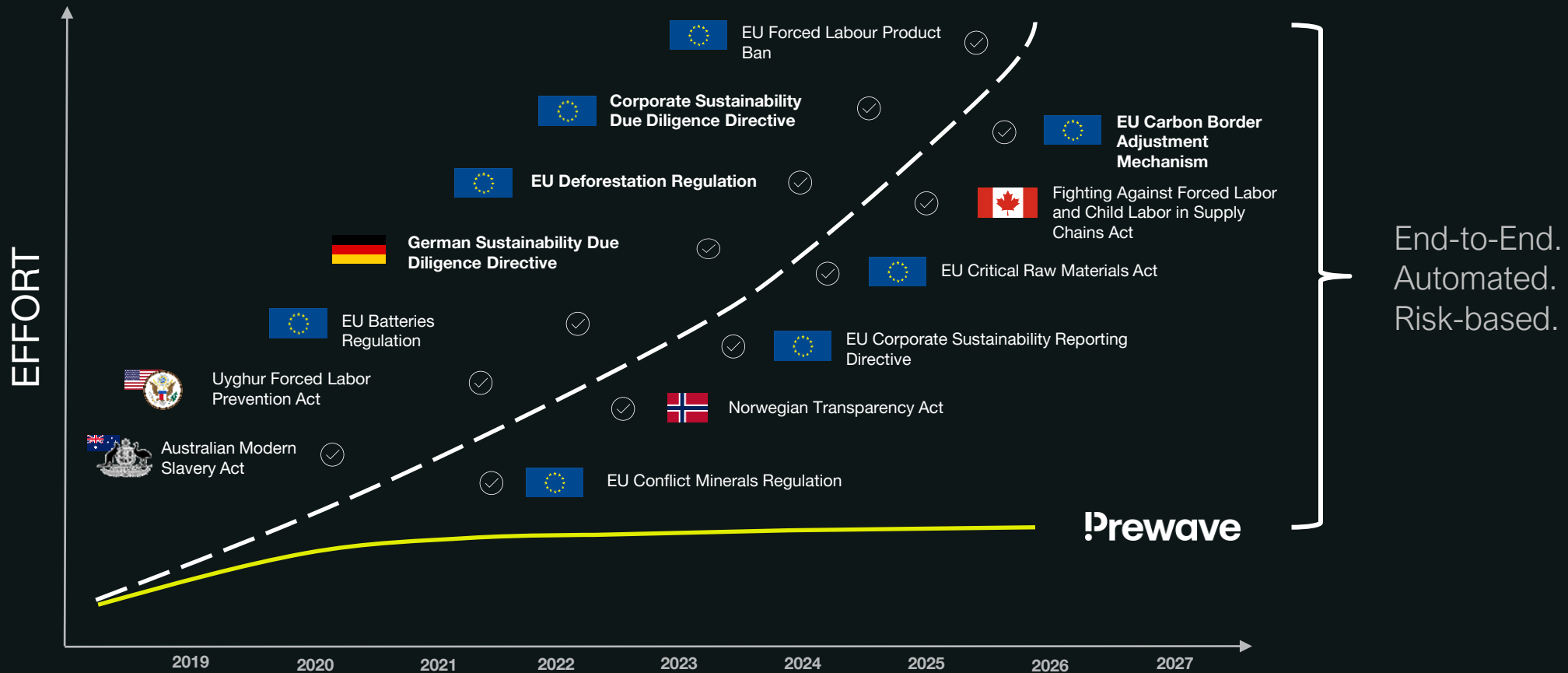
# Supply chain **superintelligence**.

Enabling **business value**.



# Efficient compliance enabled by **superintelligence**.

End-to-end, automated, risk-based



We select complex regulations where our AI can significantly reduce effort and leverage all the regulation's synergies to offer you **worldwide, efficient compliance.**

### Similarities between regulations



### Prowave AI

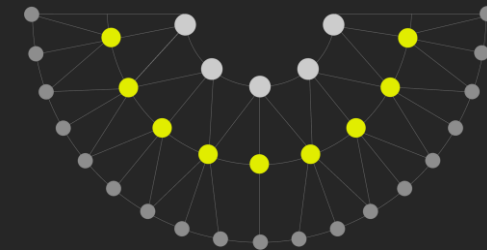
- ✓ Due diligence for ESG-related issues
- ✓ Tier-N mapping and value chain ESG risk detection

Potential of **40x** less effort with AI

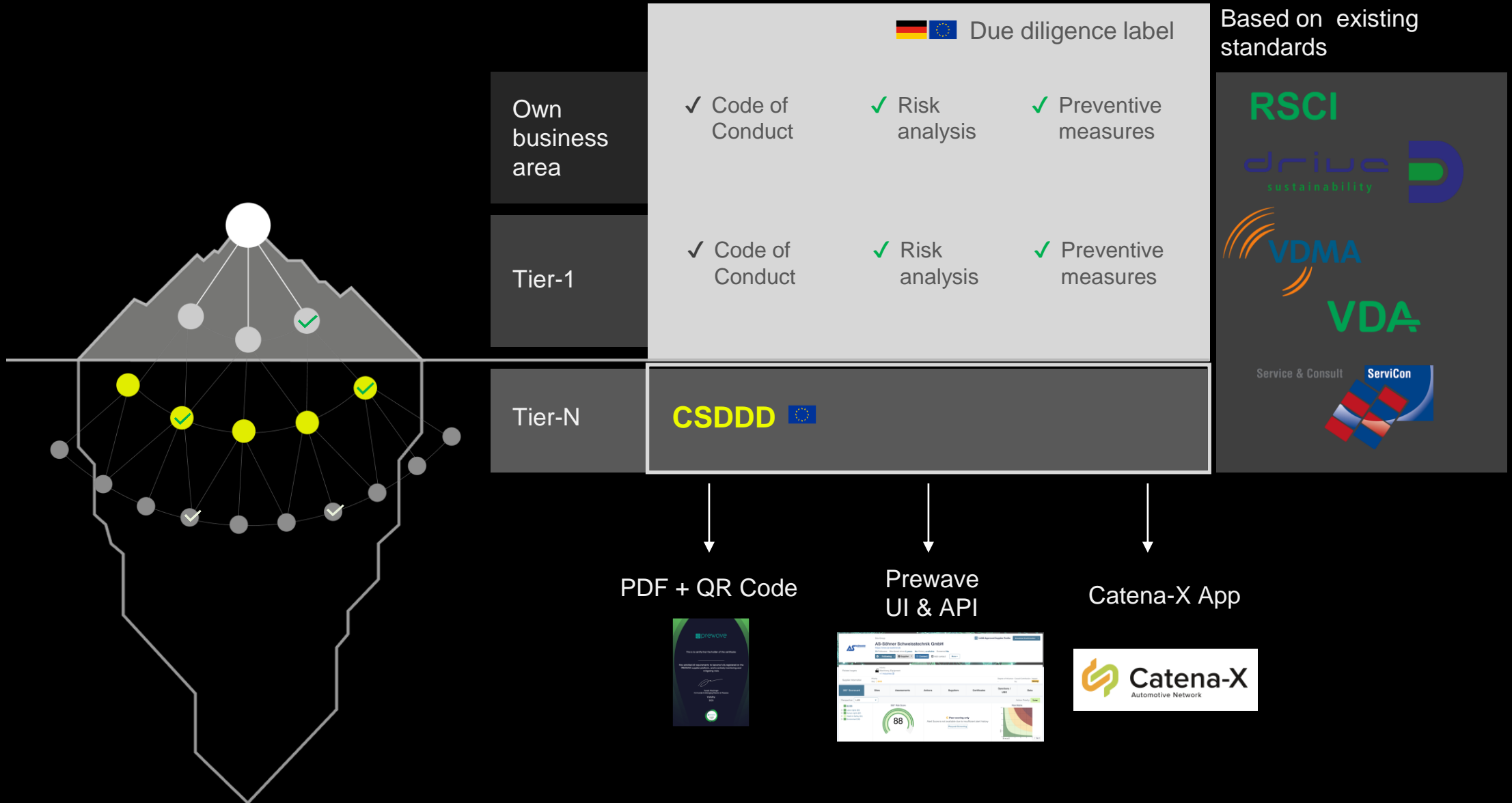


### Network Effect

**80%** of the automotive industry share the same suppliers



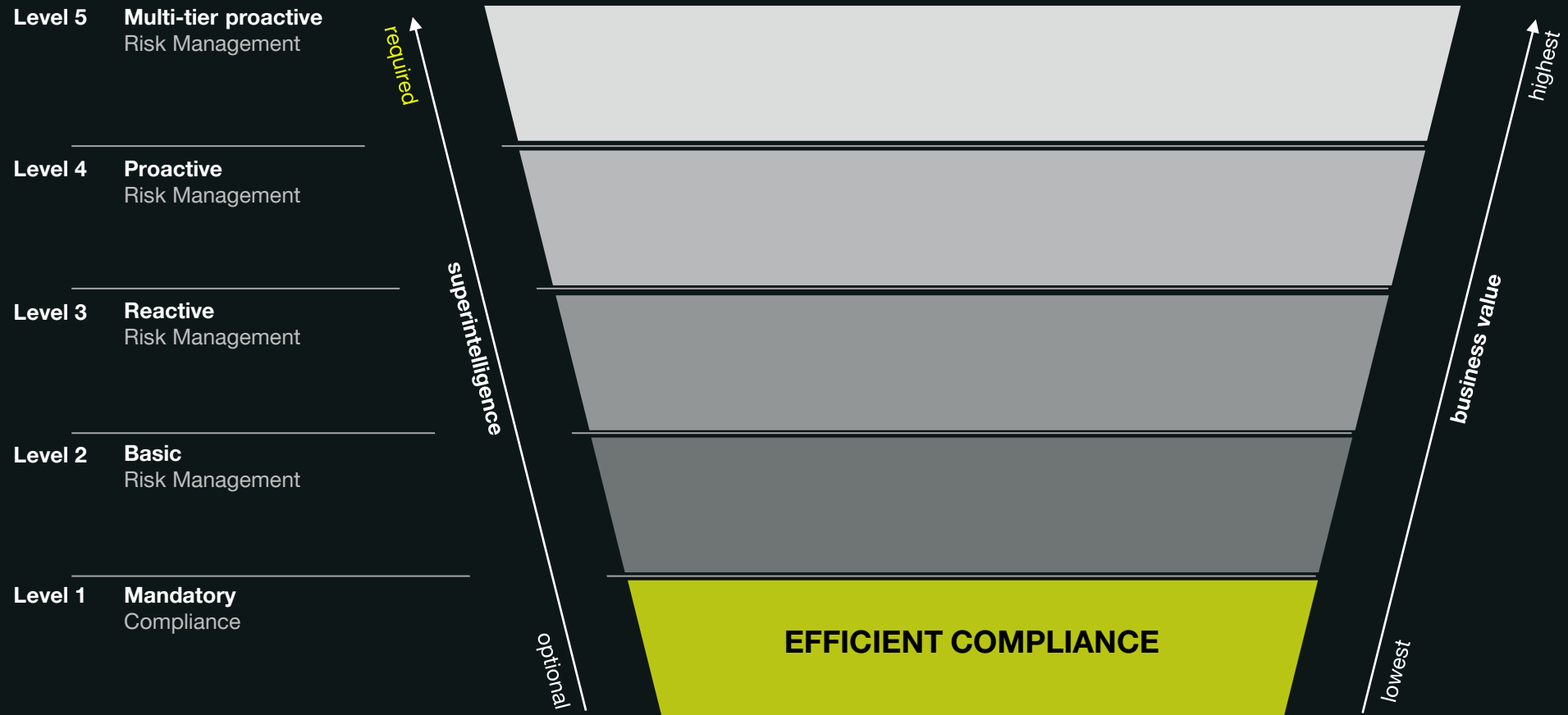
# The Network Effect / Collaboration





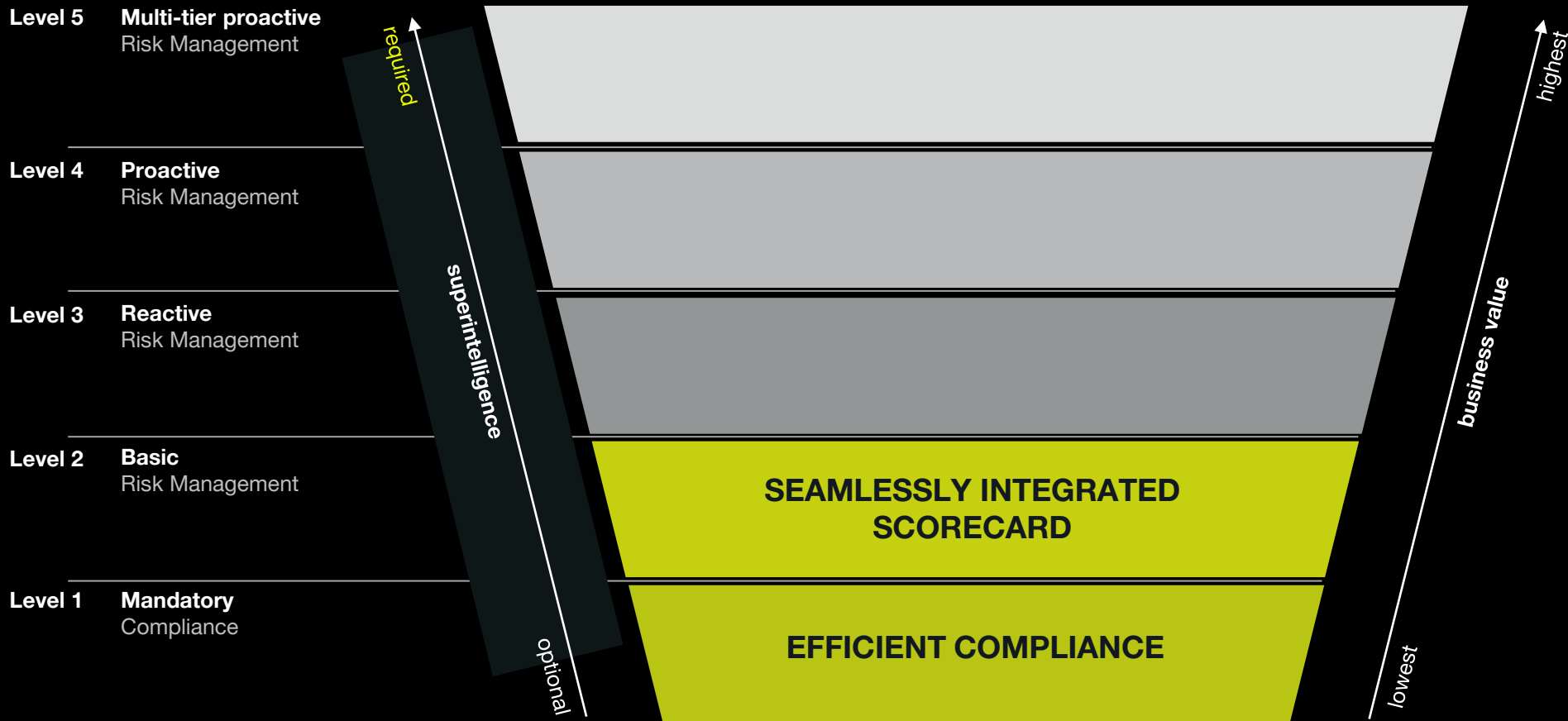
# Supply chain **superintelligence**.

Enabling **business value**.



# Supply chain **superintelligence**.

Enabling **business value**.

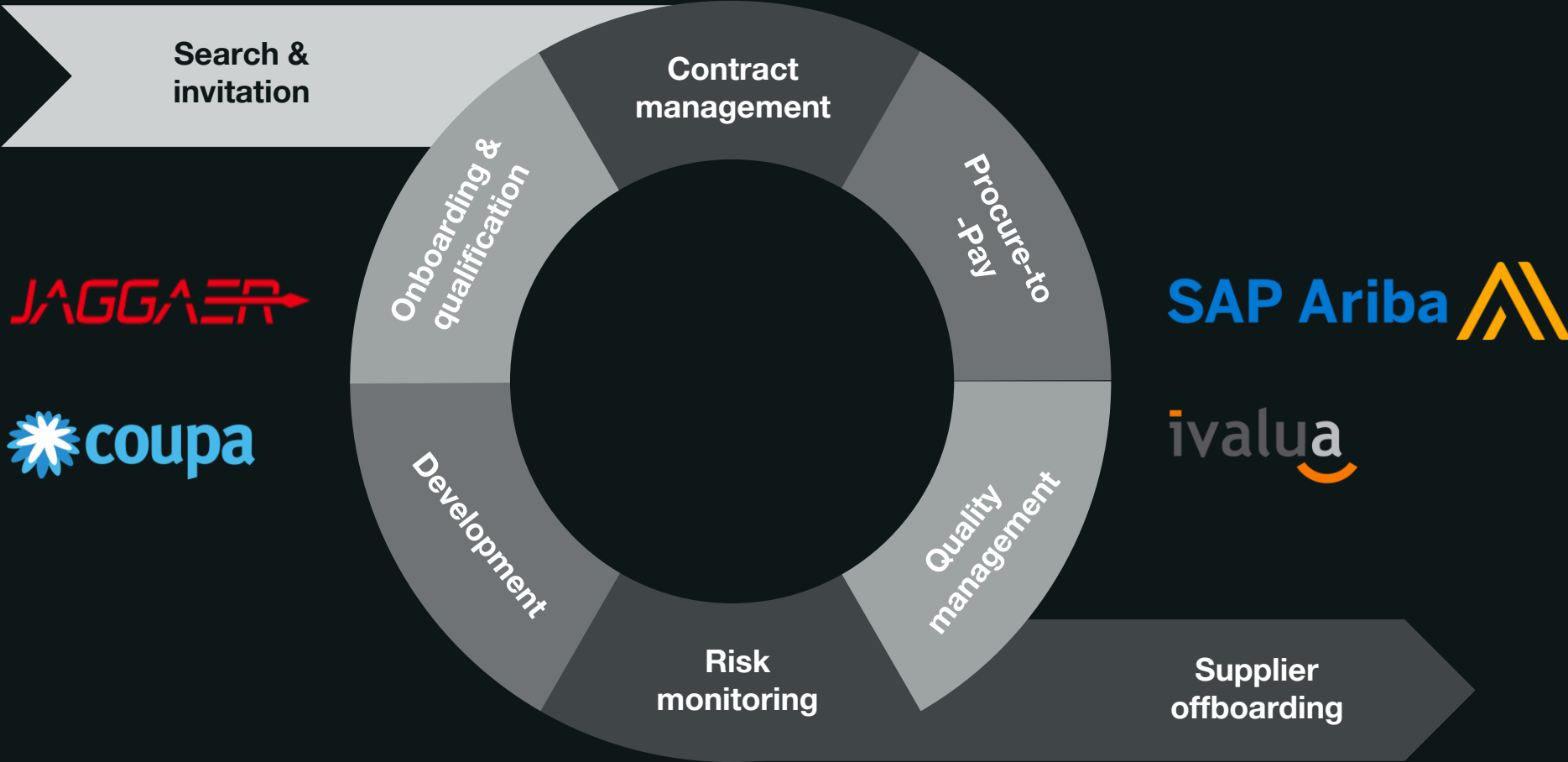


# End-to-End Supply Chain Risk Management Driven by Procurement Centre of Excellence



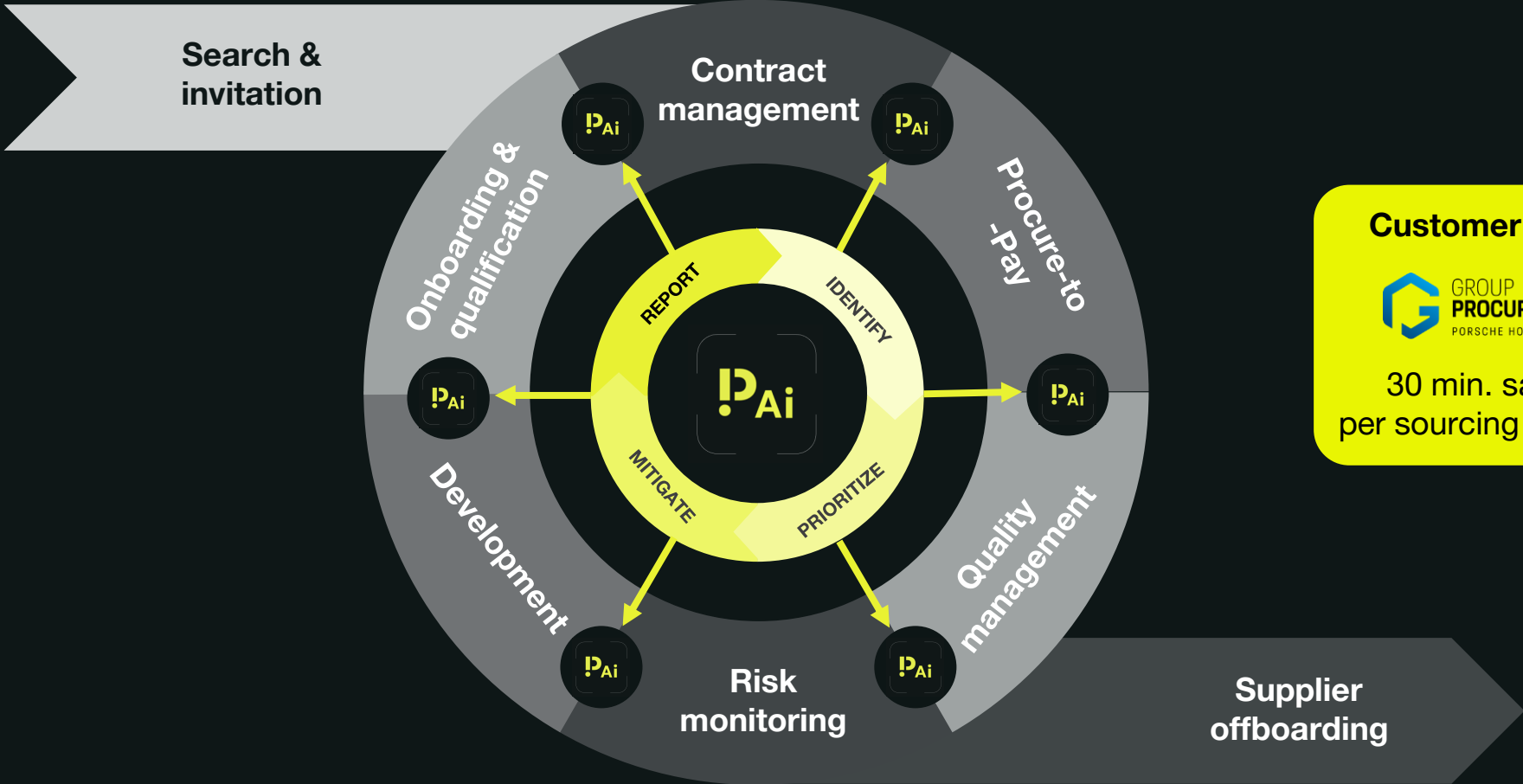
# Decentralised Supplier Lifecycle Management

Driven by individual buyers within the broad procurement organisation.



# Seamlessly Integrated Scorecard

End-to-end risk management supporting decentralised supplier lifecycle management



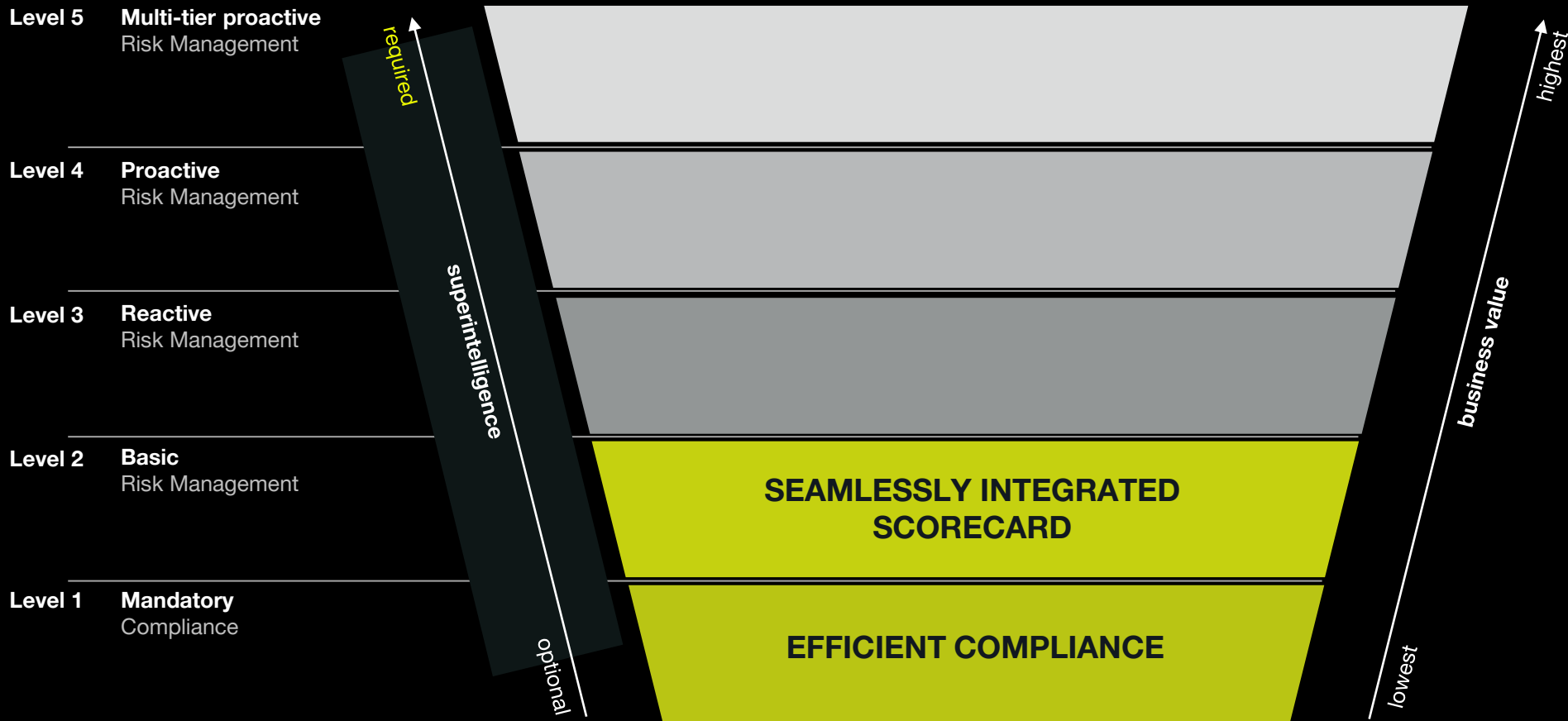
**Customer case**



30 min. saved per sourcing request

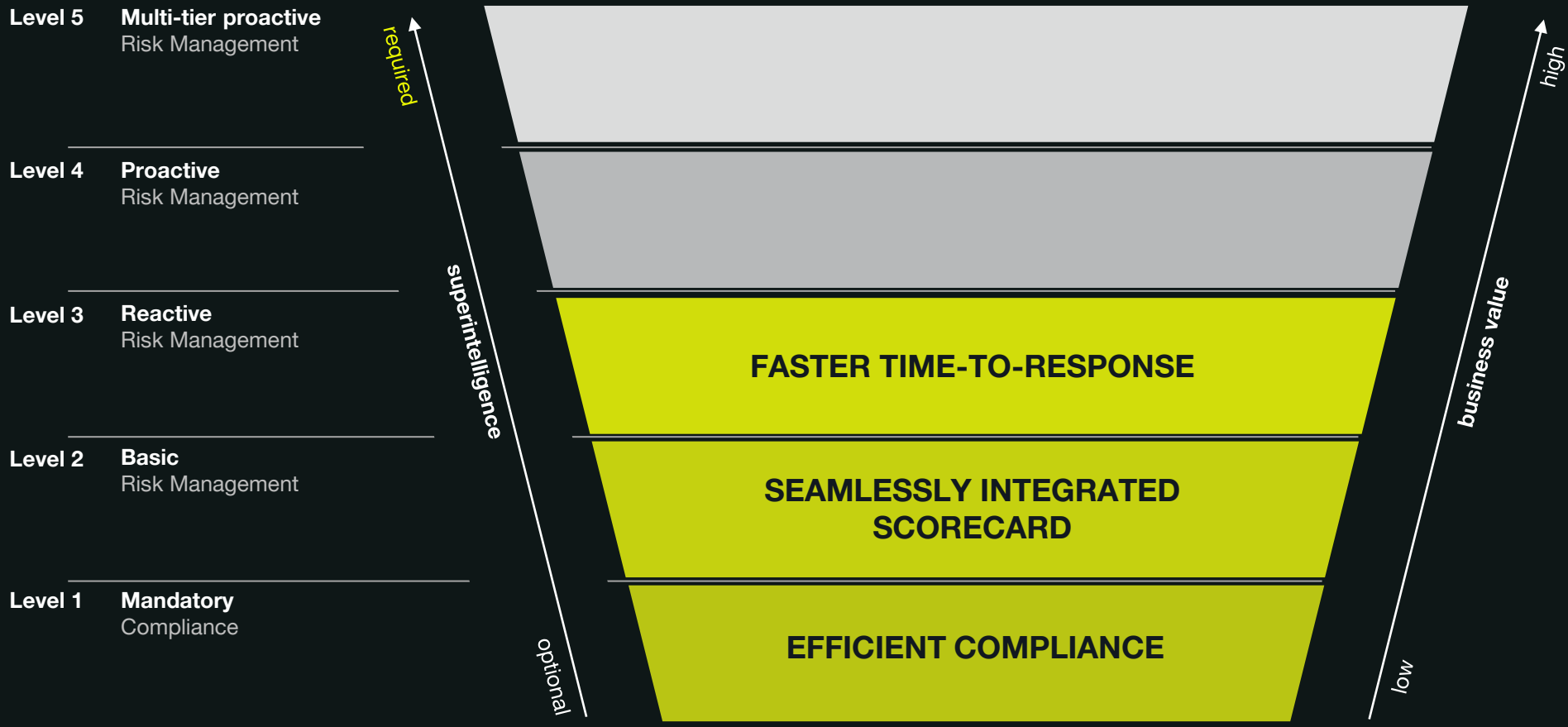
# Supply chain **superintelligence**.

Enabling **business value**.



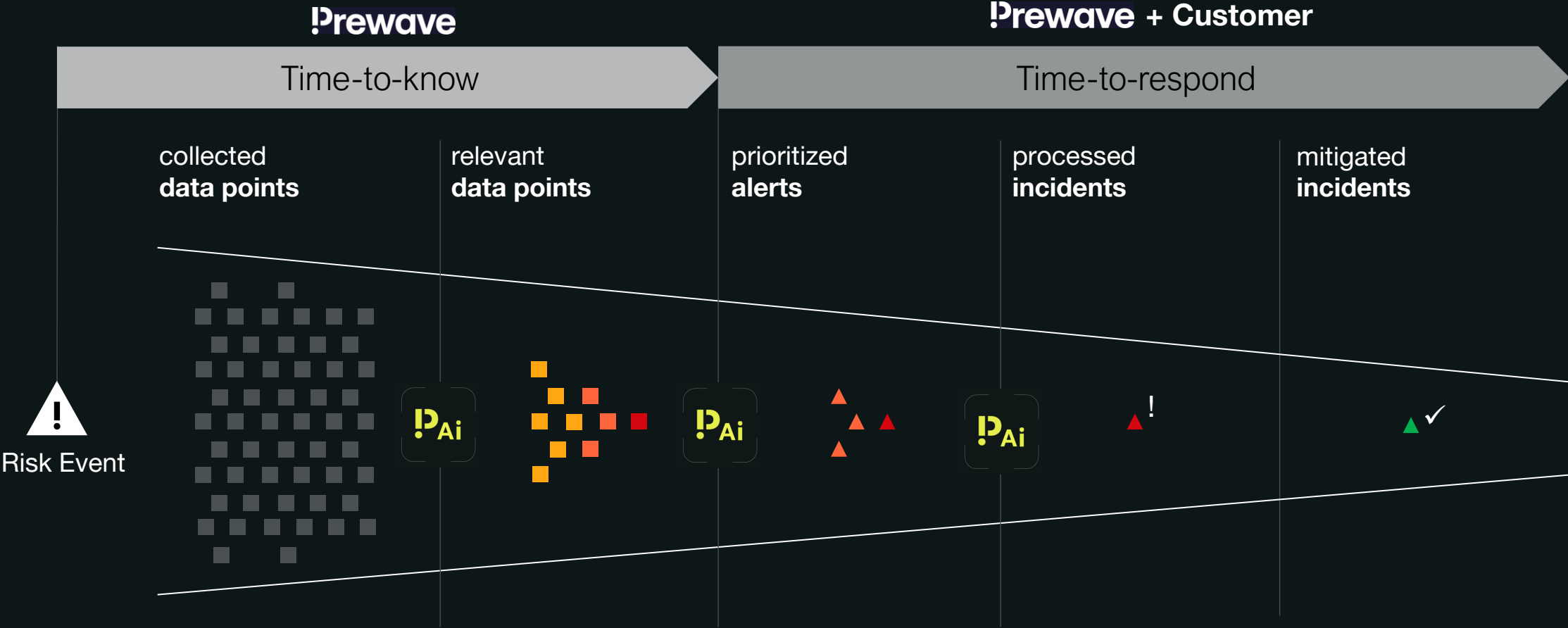
# Supply chain **superintelligence**.

Enabling **business value**.



# Faster Time-to-Response

## The Prewave Alert Funnel

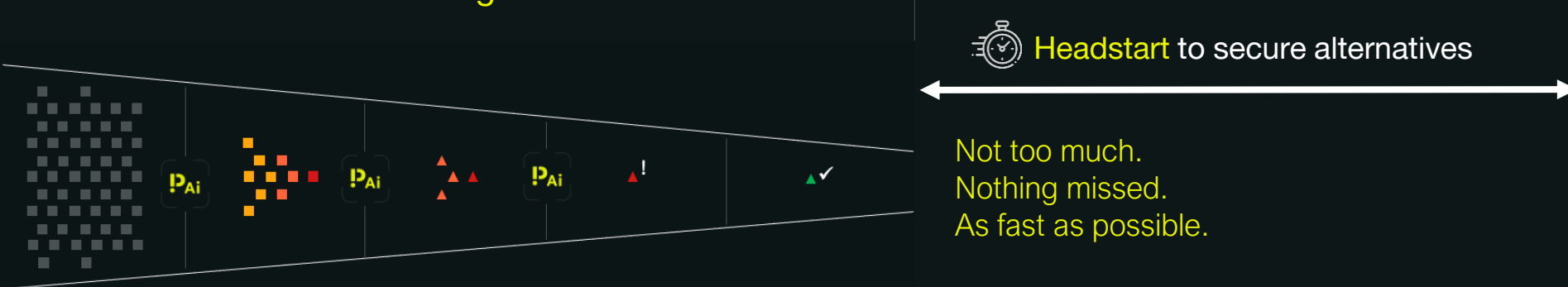




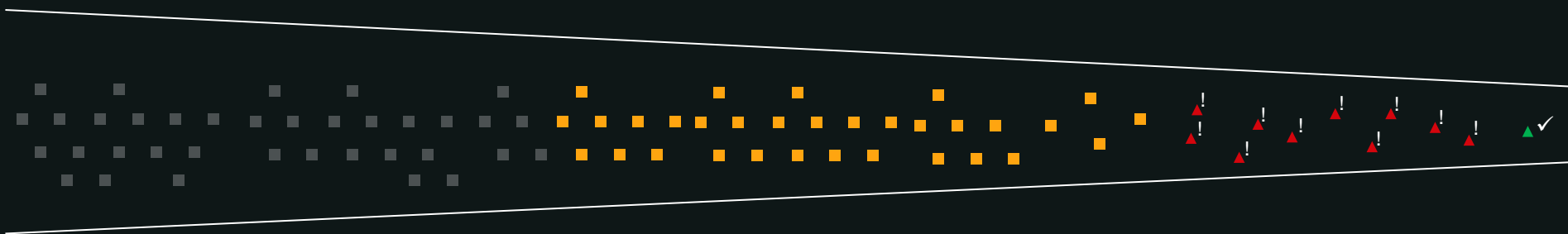
# Faster Time-to-Response

Not too much. Nothing missed. As fast as possible.

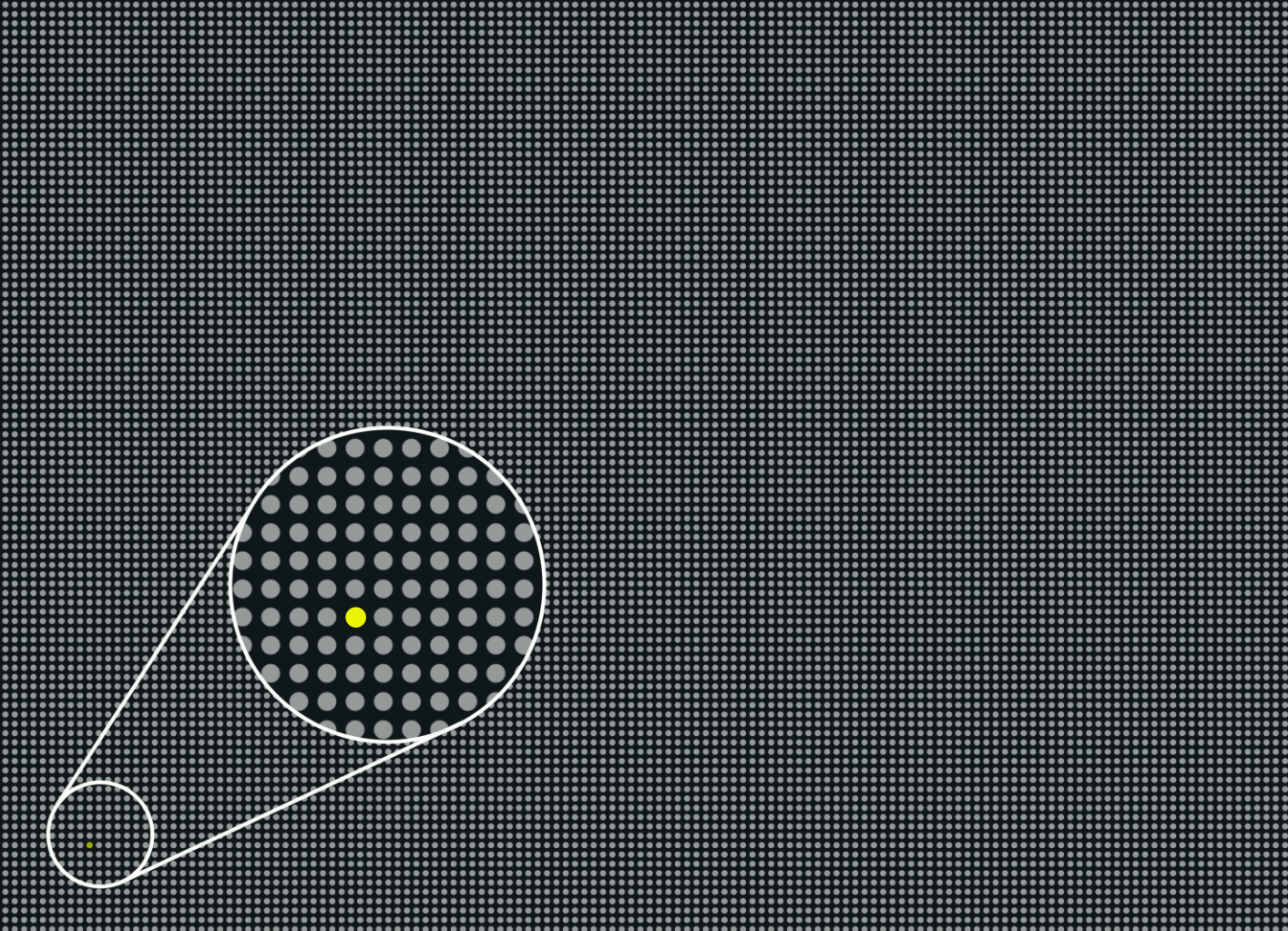
Focused and actionable alerting.



Broad media monitoring.



**Faster Time-to-Response**  
Not too much. Nothing missed. As fast as possible.



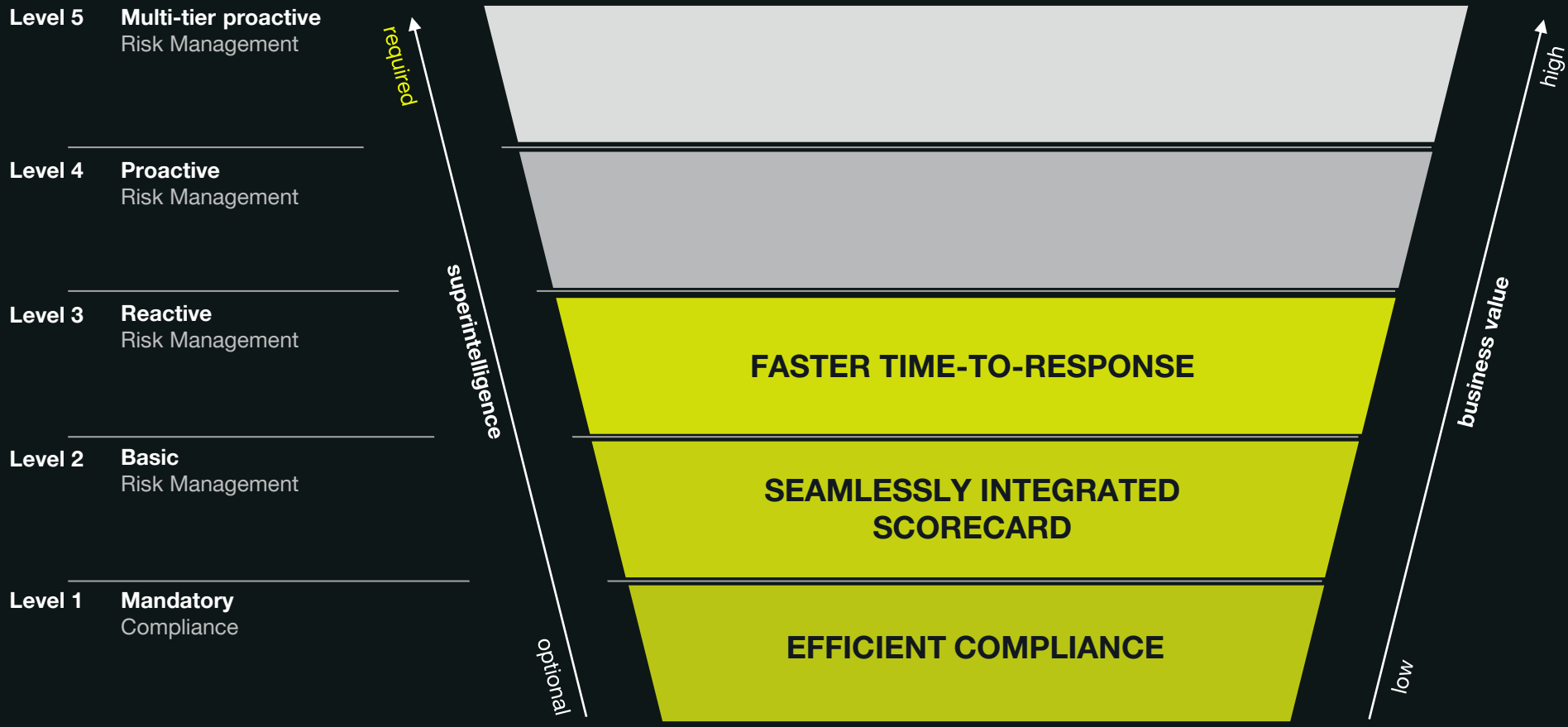
# Faster Time-to-Response

Not too much. Nothing missed. As fast as possible.



# Supply chain **superintelligence**.

Enabling **business value**.



# Supply chain **superintelligence**. Enabling **business value**.



# From reactive risk management to **proactive resilience**.

Where to invest mitigation budget to build a more resilient supply chain?

**Traditional approach**

**Proactive resilience**

*Risk Approach*

Low / Mid / High

% Probability of disruption

*Prioritisation*

**A/B/C**

- Purchase Volume
- Strategic / Commodity
- Single / Dual / Multi Source

*Mitigation  
Return-on-invest.*

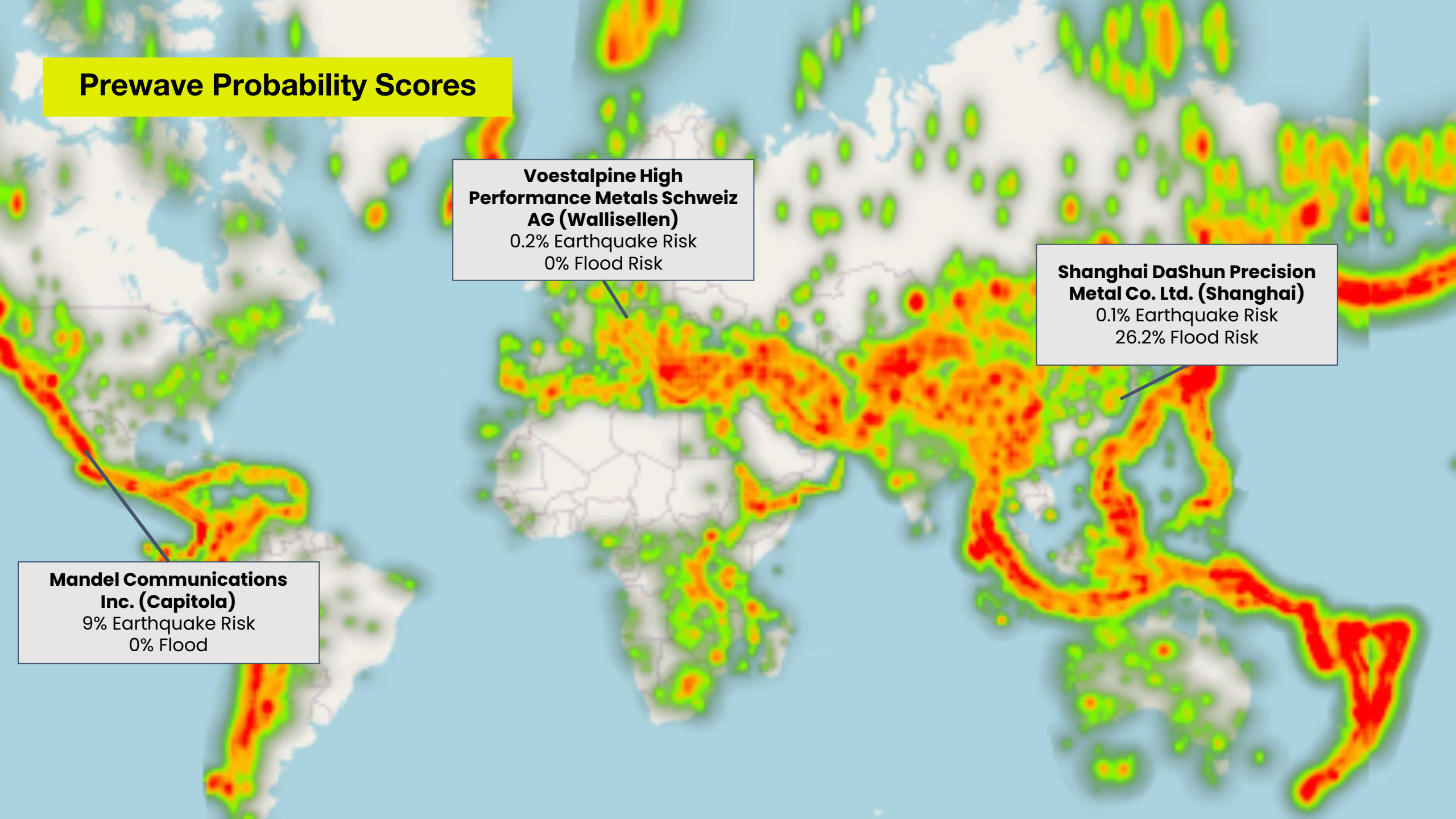
?

## Prewave Probability Scores

**Voestalpine High  
Performance Metals Schweiz  
AG (Wallisellen)**  
0.2% Earthquake Risk  
0% Flood Risk

**Shanghai DaShun Precision  
Metal Co. Ltd. (Shanghai)**  
0.1% Earthquake Risk  
26.2% Flood Risk

**Mandel Communications  
Inc. (Capitola)**  
9% Earthquake Risk  
0% Flood



# From reactive risk management to **proactive resilience**.

Where to invest mitigation budget to build a more resilient supply chain?

## Traditional approach

## Proactive resilience

### *Risk Approach*

Low / Mid / High

% Probability of disruption

### *Prioritisation*

#### **A/B/C**

- Purchase Volume
- Strategic/Commodity
- Single/Dual/Multi Source

#### **Net Revenue Impact**

- Revenue lost in case of disruption

### *Mitigation Return-on-invest.*

?



Precise ROI based on  
projected revenues lost

**KÄRCHER** Up to 12x higher mitigation ROI

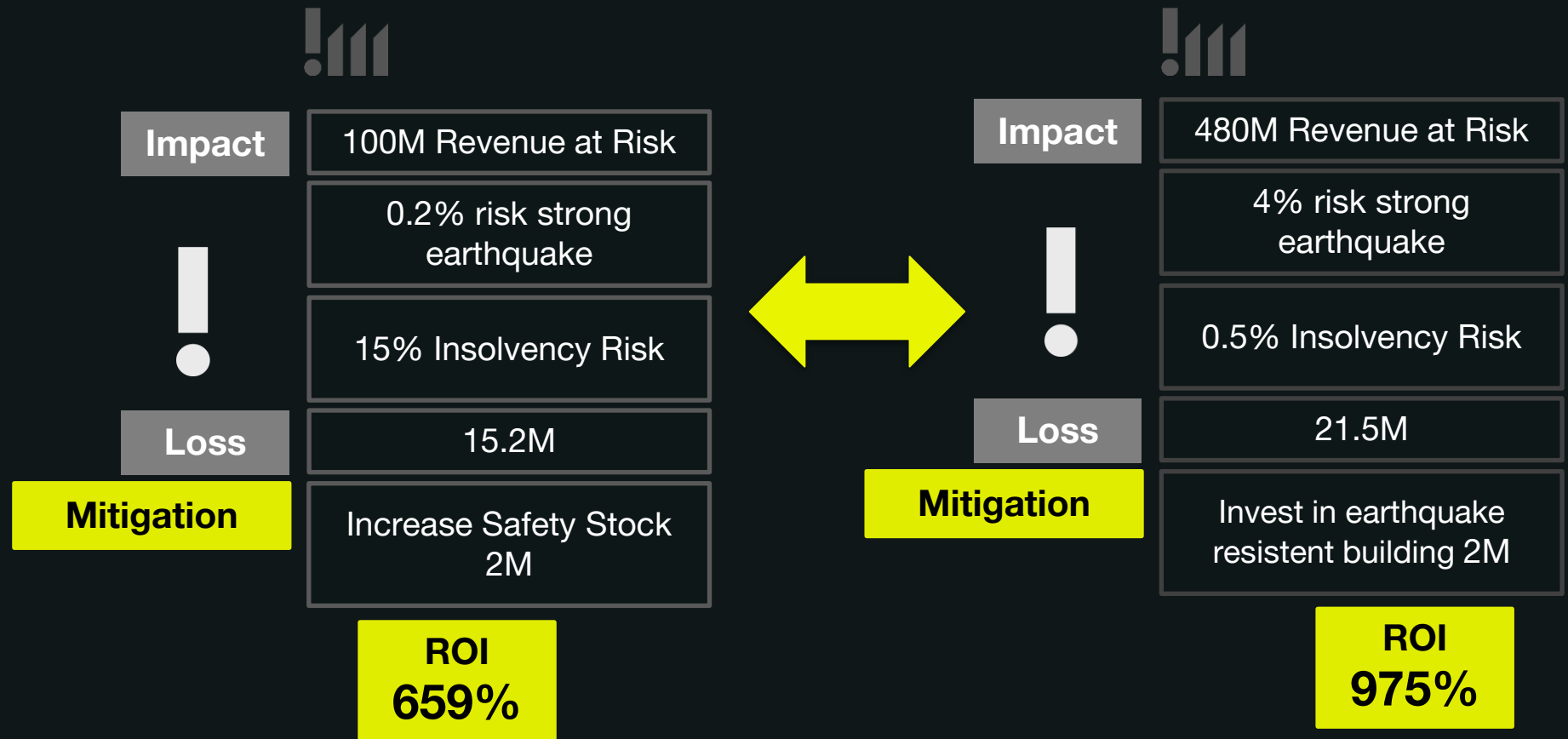
Customer case

6 mo. implementation time



# Prewave Proactive Resilience Approach

Which of the following Suppliers should be prioritized?



What is the right mitigation strategy?

How to calculate whether it is worth the resources?

# Supply chain **superintelligence**.

Enabling **business value**.



# Supply chain **superintelligence**.

Enabling **business value**.

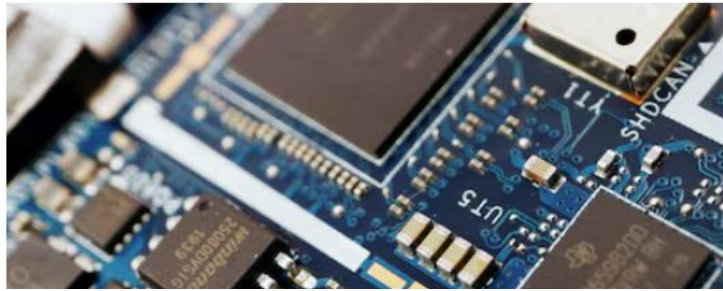


# The most significant supply chain risks require **multi-tier risk management**.

## Exclusive: Russia's attack on Ukraine halts half of world's neon output for chips

By Alexandra Alper

March 11, 2022 4:37 PM GMT+1 - Updated 2 years ago



### U.S. Customs and Border Protection (CBP) Uyghur Forced Labor Prevention Act Enforcement Statistics June FY2022 to FY2024 to date

Shipment Metrics			
Total	Denied	Released	Value (USD)
8,465	3,375	3,858	\$3.32B

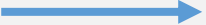

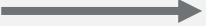
MAY 14, 2024

# FACT SHEET: President Biden Takes Action to Protect American Workers and Businesses from China's Unfair Trade Practices

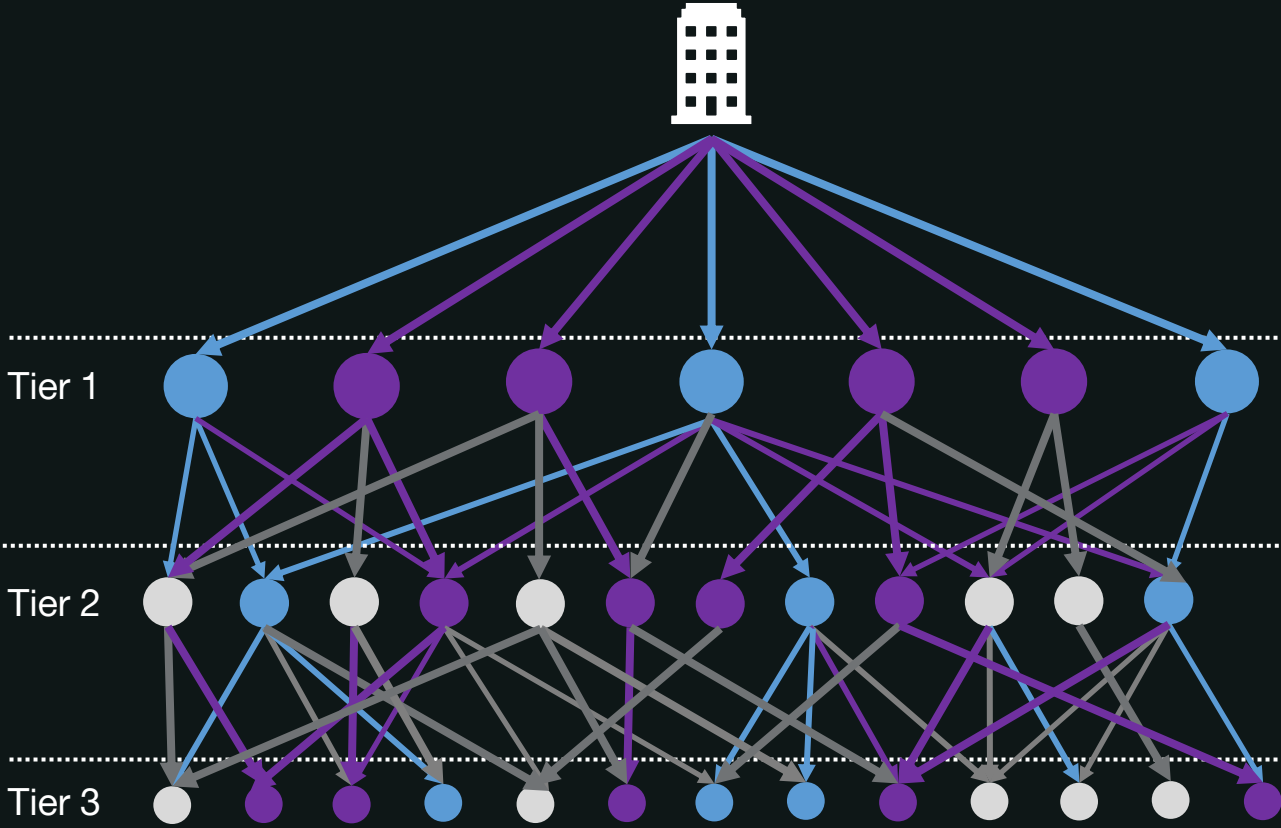
Battery parts (non-lithium-ion batteries)	Increase rate to 25% in 2024
Electric vehicles	Increase rate to 100% in 2024
Facemasks	Increase rate to 25% in 2024
Lithium-ion electrical vehicle batteries	Increase rate to 25% in 2024
Lithium-ion non-electrical vehicle batteries	Increase rate to 25% in 2026
Medical gloves	Increase rate to 25% in 2026
Natural graphite	Increase rate to 25% in 2026
Other critical minerals	Increase rate to 25% in 2024
Permanent magnets	Increase rate to 25% in 2026
Semiconductors	Increase rate to 50% in 2025
Ship to shore cranes	Increase rate to 25% in 2024
Solar cells (whether or not assembled into modules)	Increase rate to 50% in 2024
Steel and aluminum products	Increase rate to 25% in 2024
Syringes and needles	Increase rate to 50% in 2024

# Multi-tier transparency enabled by **superintelligence**.

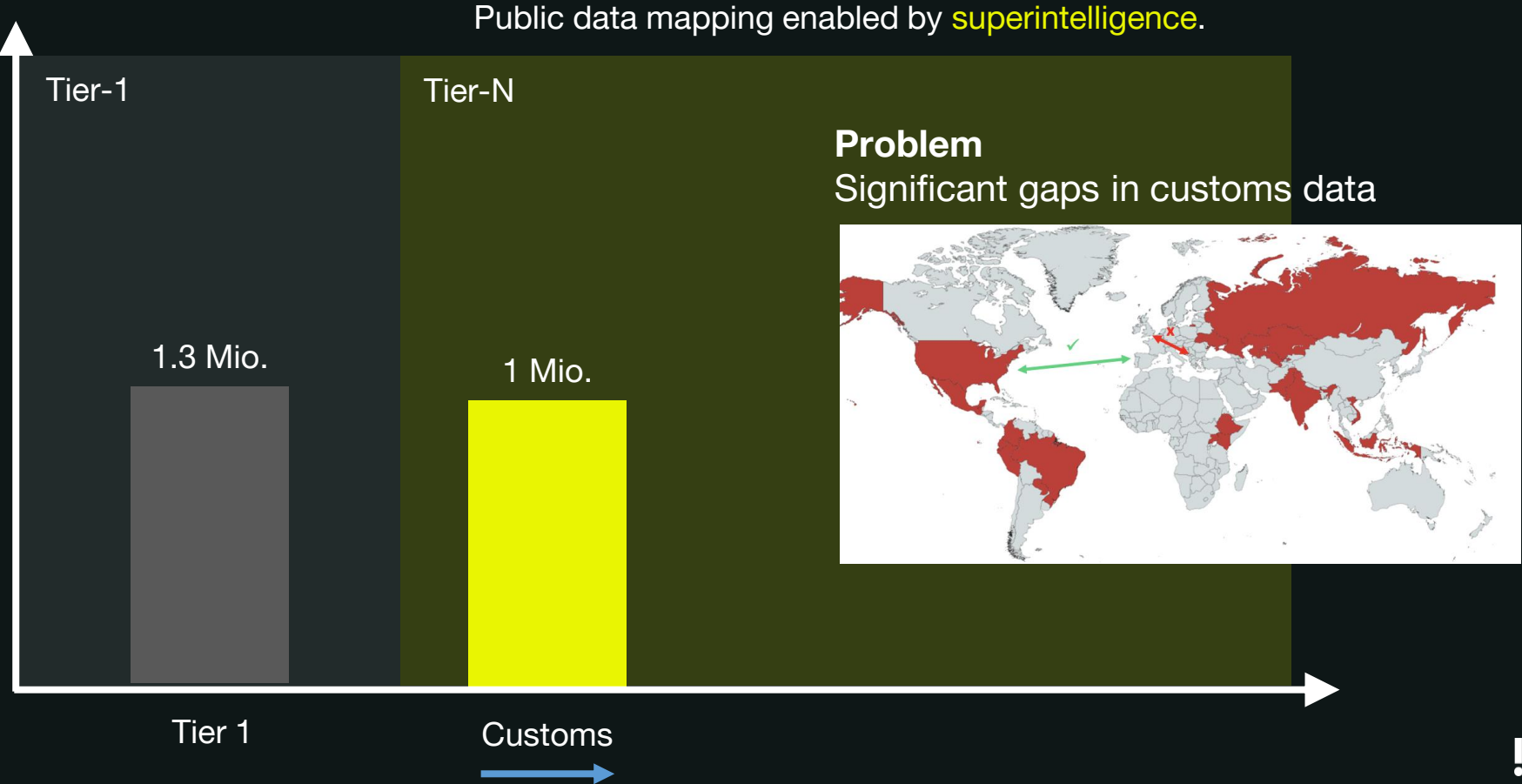
**Public data mapping**  
Sourced from public media and international trade data

- Customs 
- Media 
- Predicted 

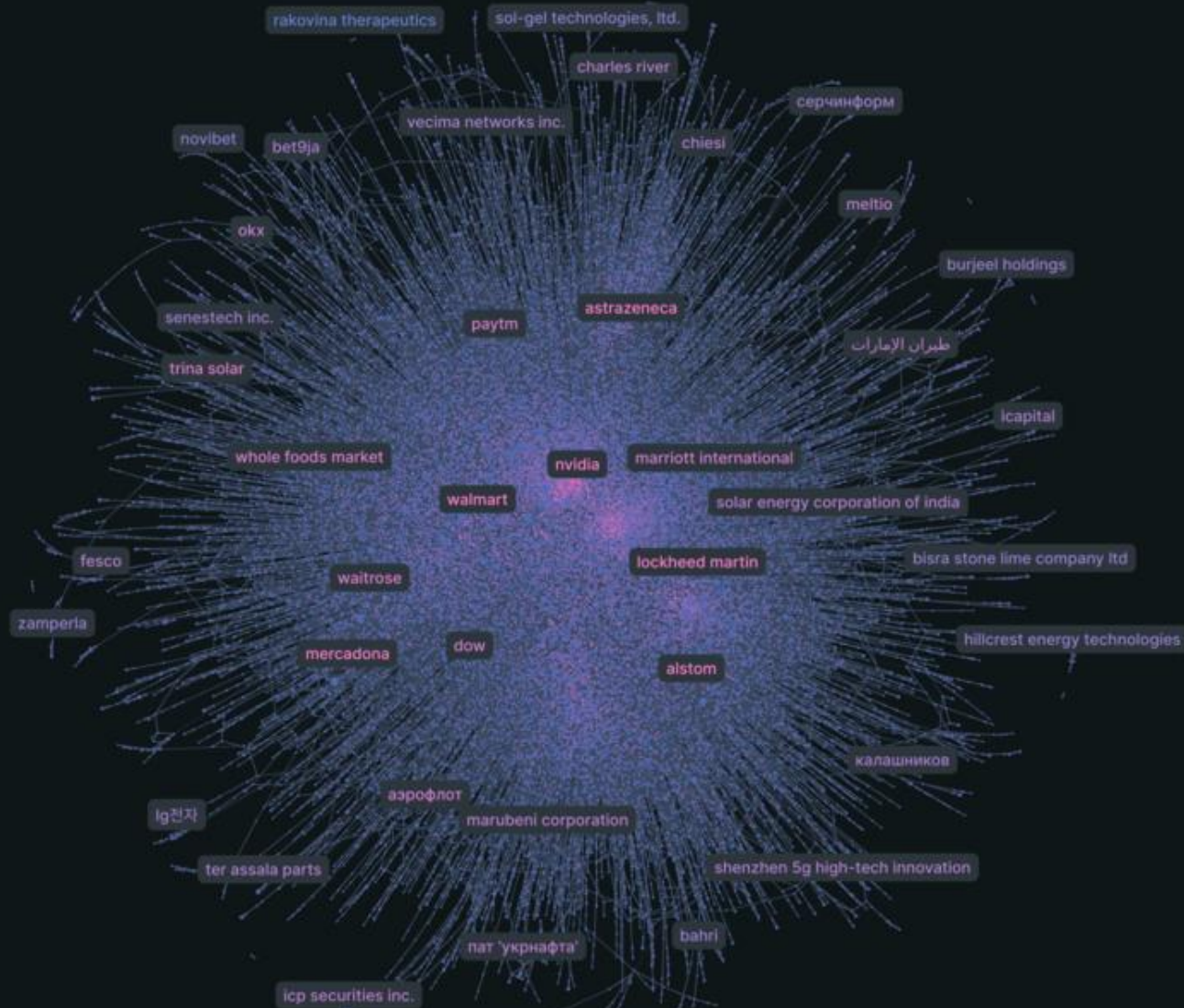
Enabled by **superintelligence**.



# Multi-tier transparency enabled by **superintelligence**.



# Identifying supplier relations in media data.



CATL Enhances Real-Time Data Processing

Intel's memory innovation enhances real-time data processing for smart manufacturing.

## CATL, the little-known Chinese battery maker that has the US worried

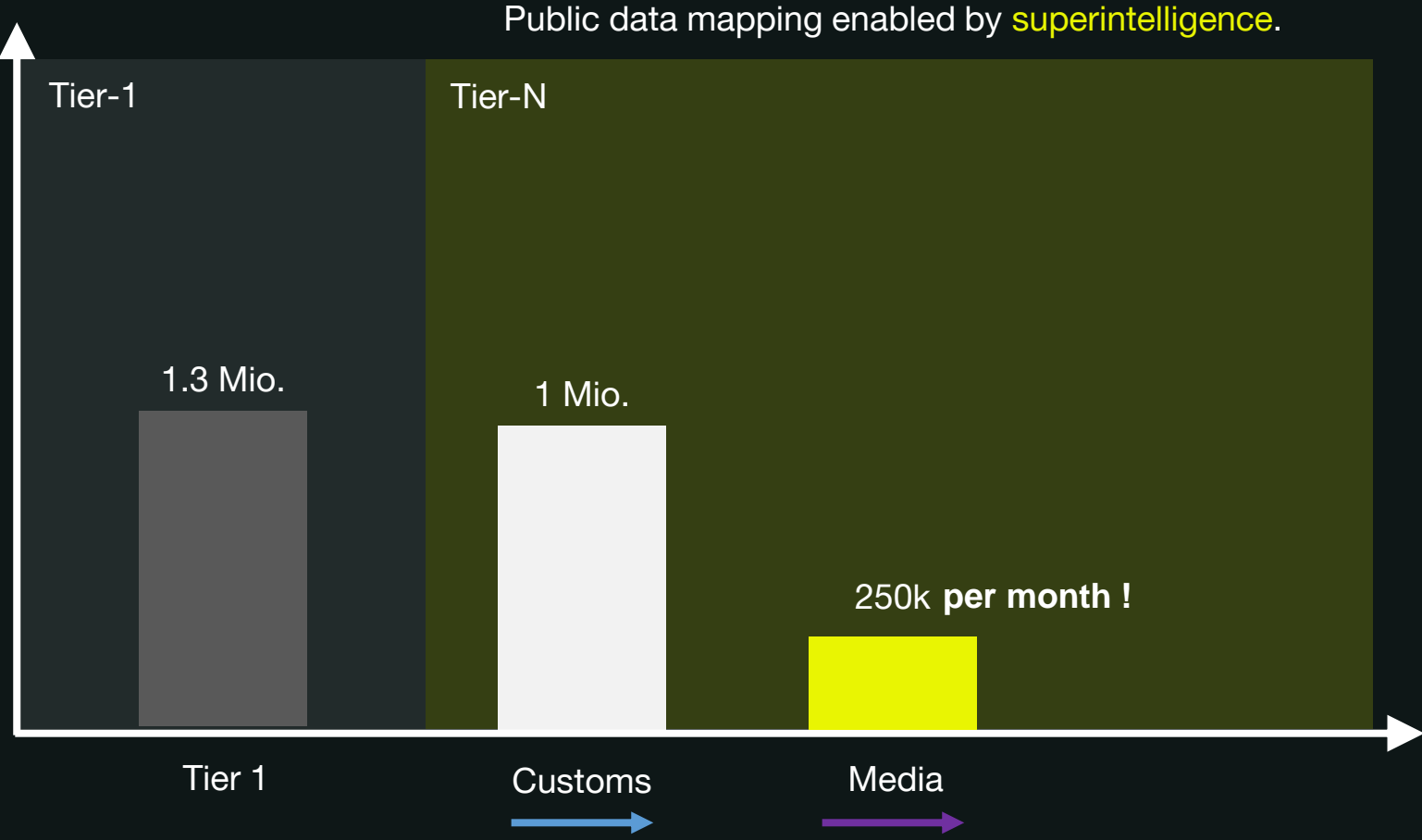
energy storage specialist that is the world's largest battery maker for electric vehicles (EVs). But despite the fact that the company controls nearly two-fifths of the world's EV battery market - and has powered cars made by brands including Tesla, Volkswagen and BMW - it has long flown under the radar of US politics. Until now.

3 May 2023

China's SICC and TanKeBlue to supply silicon carbide wafers and boules to Infineon

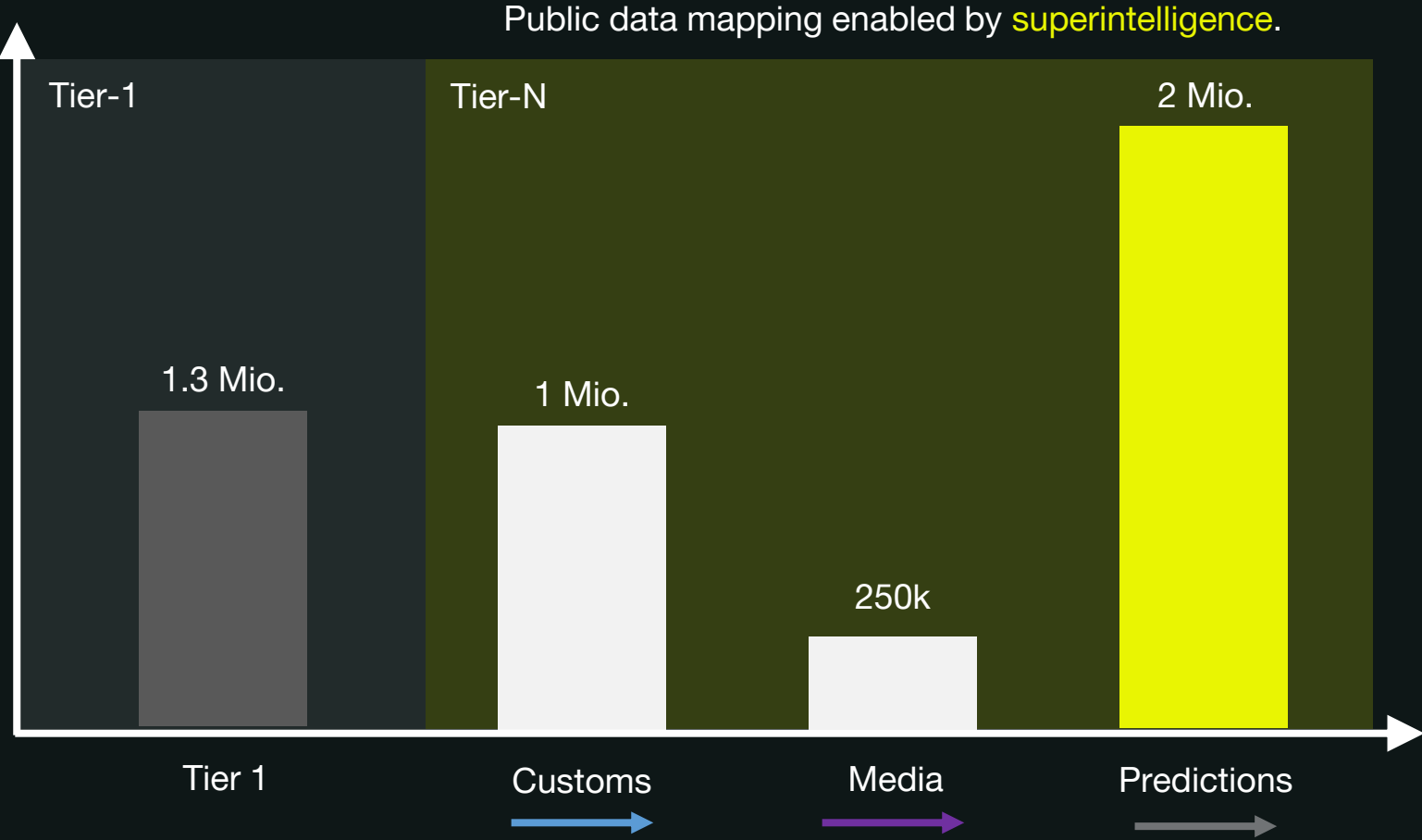
Honeywell Receives Supplier Excellence Award From Infineon Technologies For Second Year In A Row

# Multi-tier transparency enabled by **superintelligence**.





# Multi-tier transparency enabled by **superintelligence**.



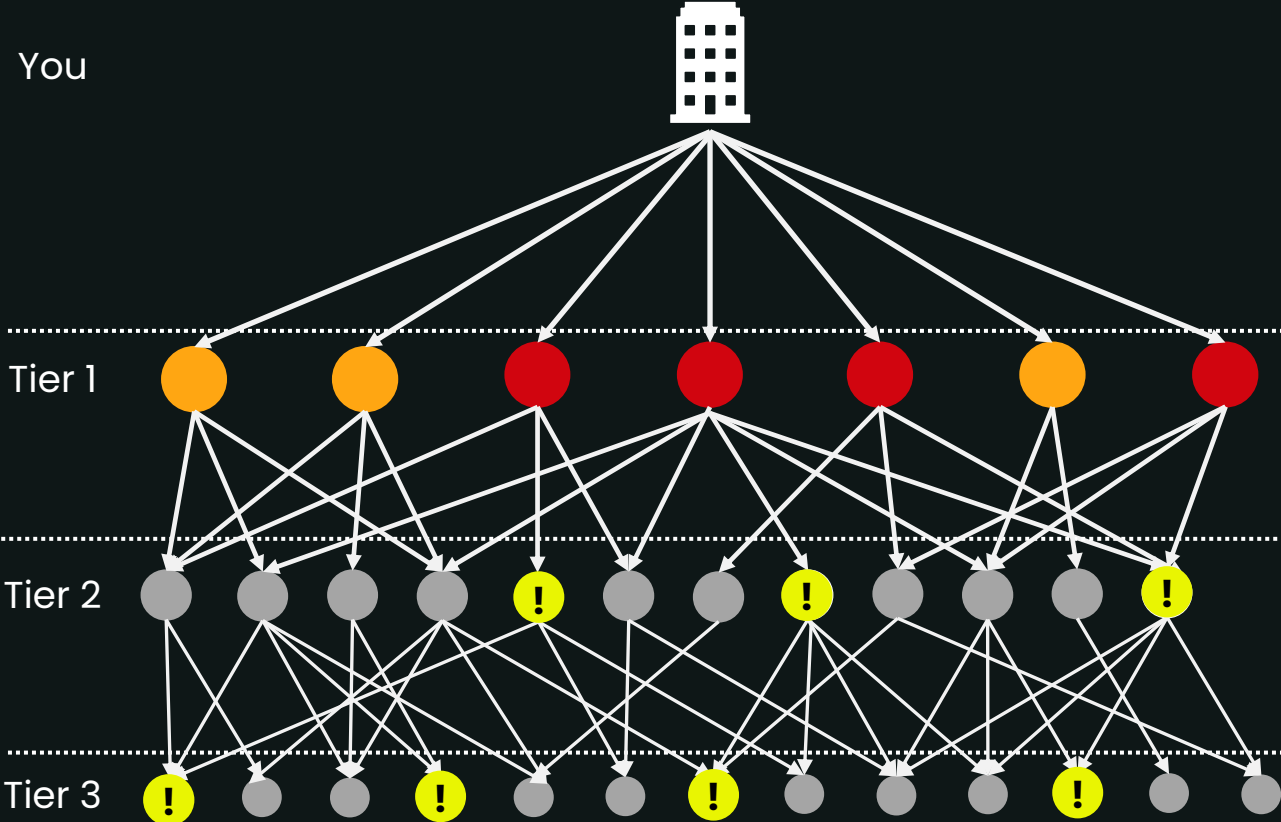
**Superintelligence** enables proactive assessment of multi-tier risk exposures.

Exposure scenarios

Neon gas

UFLPA

Trade conflict



● Directly affected Tier 1 supplier   ● Indirectly affected Tier 1 supplier   ! Exposed company

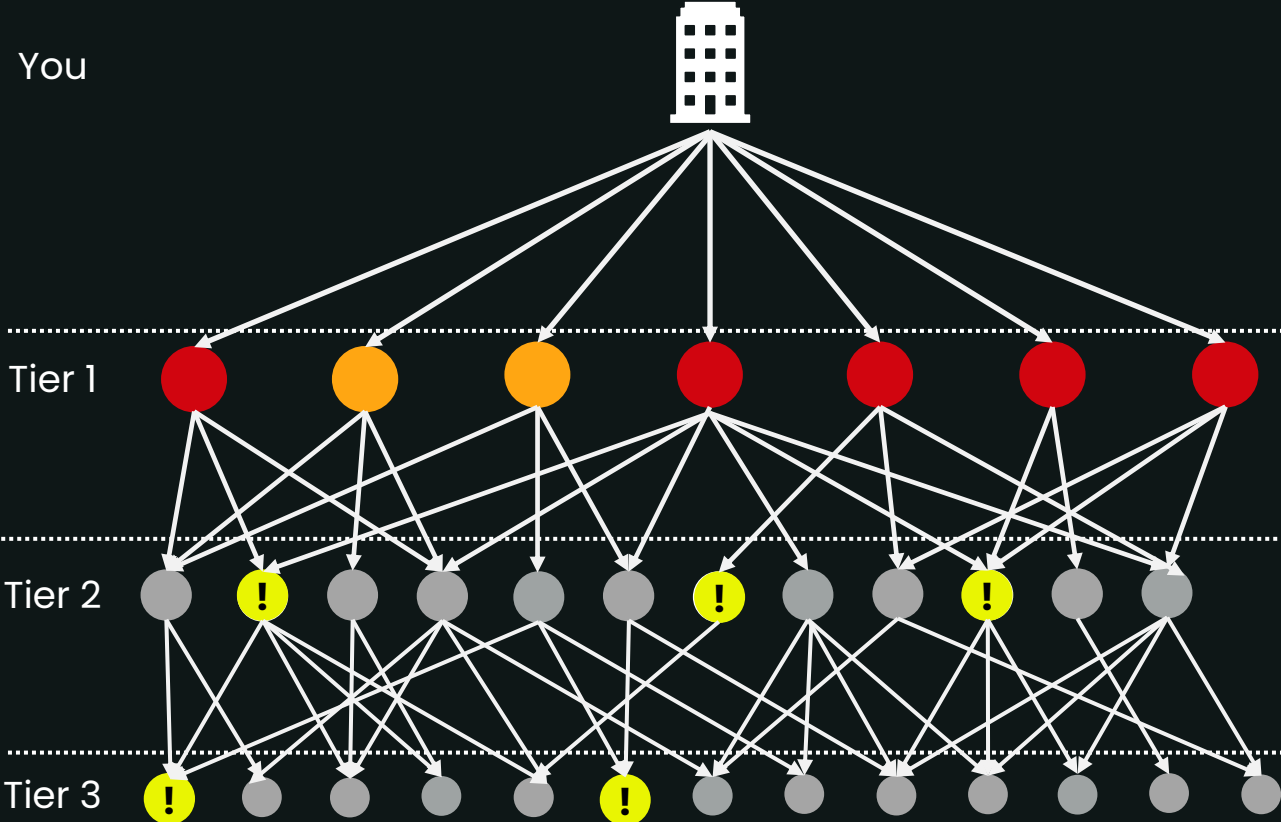
**Superintelligence** enables proactive assessment of multi-tier risk exposures.

Exposure scenarios

Neon gas

UFLPA

Trade conflict



● Directly affected Tier 1 supplier   ● Indirectly affected Tier 1 supplier   ● Exposed company

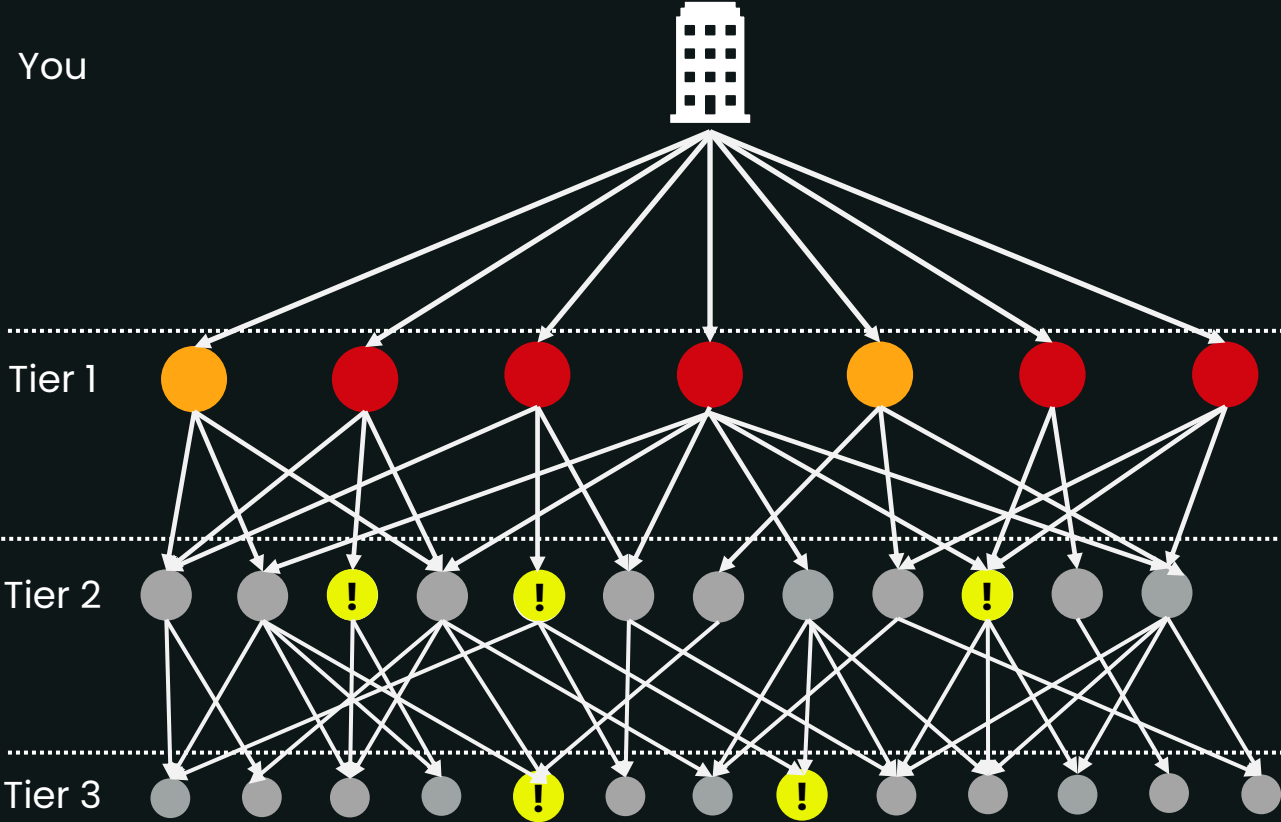
**Superintelligence** enables proactive assessment of multi-tier risk exposures.

Exposure scenarios

Neon gas

UFLPA

Trade conflict



● Directly affected Tier 1 supplier   ● Indirectly affected Tier 1 supplier   ! Exposed company

# Outlook

Prewave offers both out-of-the-box and on-demand research, whether the problem has already reached you or not

## Out-of-the-box

Reactive

Proactive

UFLPA

EU  
Sanctions  
on  
Russian  
steel

Tensions  
on the  
Korean  
Peninsula

Taiwan  
semi

Forced  
labour  
research

## On-demand

Reactive

Proactive

The relevant questions for your business!

# Outlook

Proactive approach – A conflict in the Korean Peninsula can disrupt 50% of global nitrile rubber exports...



## Automotive Industry

### **Nitrile Rubber (50% Loss):**

Impacting production of oil-resistant products like O-rings, gaskets, adhesives and sealants.

### **Acrylonitrile Butadiene Styrene (30% Loss):**

Impacting injection moulding and production of trims and bumpers.

### **P-Xylene (30% Loss):**

Impacting production of interior trim and lighting components.



## Heavy Industry

### **Tankers (44% Loss):**

Impacting global transports of oil.

### **Oil Platforms (31% Loss):**

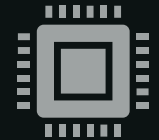
Impacting oil extraction and causing potential long-term effects on oil-dependent sectors.



## Textiles and Apparel

### **Drying Machines (33% Loss):**

Impacting the production of yarn and textiles.



## Semiconductor

### **Manufacturing Tools (32% Loss):**

Impacting semiconductor fabrication.

### **Memory Chips (34% Loss):**

Impacting diverse applications in electronics and automation.

# Outlook

...but the question remains: "How am I affected?"

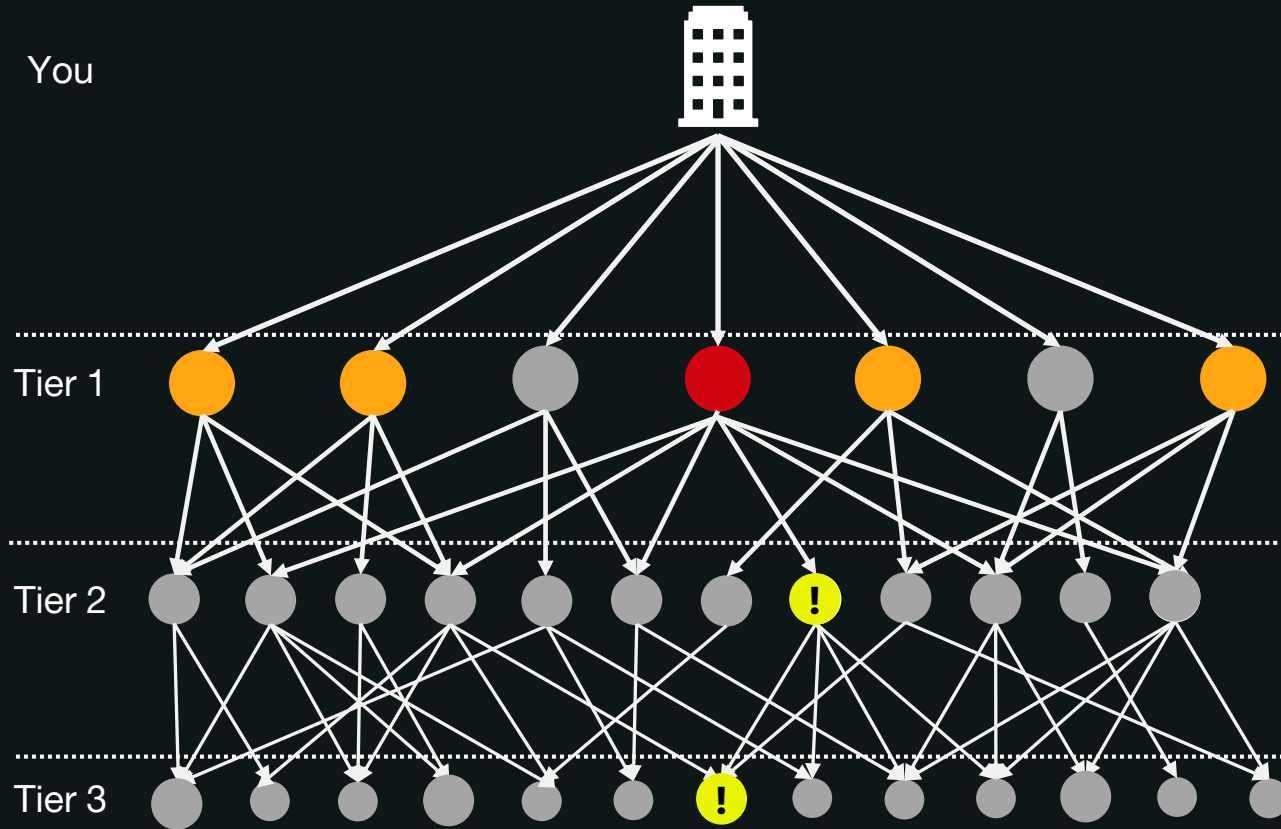
## Exposure analysis

Neon gas

UFLPA

Trade war

South Korea



● Directly affected Tier 1 supplier ● Indirectly affected Tier 1 supplier ! Exposed company

# Supply chain **superintelligence**.

Enabling **business value**.





**!Protect your people.**

**!Protect your planet.**

**!Protect your profit.**

**!rewave**