

Supply Chain Resilience

How Manufacturers Can Mitigate Supply Chain Disruption
in The Post-COVID World

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Agenda

- **Global Challenge:** Mitigation of supply chain disruption
 - Mitigating Carbon Across Supply Chains
 - Digital Twins of Ecosystems - Rethinking supply chain resilience
 - Managing risk
 - **Conclusions:** Creating a tactical plan
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- Global leader in non-destructive testing solutions
 - Ensuring safety, quality and productivity for over 10,000 customers worldwide
 - 125+ years of NDT experience
 - Driving insights and innovations from data
 - Making sure that cars start reliably, planes fly safely, and phones turn on smoothly. Every time.

Inspection starts here

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Your partner for industrial inspection solutions.



Broadest portfolio in the market, from Hardware to Software and Services

 Radiography	 Ultrasound	 Visual
2D and 3D CT Systems Digital Radiography (FS, CR, DR) Film, Equipment & Chemistry X-ray Tubes and Generators	Flaw Detectors Thickness Gauges System Instrumentation Transducers Installed Sensors Ultrasonic Testing Machines	Video Borescopes Borescopes Fiberscopes PTZ Cameras Advanced Inspection Services Rentals
HARDWARE		
SOFTWARE Evaluation and process optimization InspectionWorks	SERVICES Services offerings After-Sales support Training selected inspection services	



Peace of mind starts here

A breadth of market leaders in various industries utilize our technologies to maximize safety, quality, and productivity.

Aerospace

Inventing solutions for testing high-tech materials



Automotive

Improving inspection efficiency from battery to body



Electronics

Increasing semi-conductor, solder joint and battery reliability



Additive

Ensuring optimized 3D machine printing processes and part quality



Energy

Securing reliable energy supply



Oil+Gas

Maintaining safety for refineries and pipelines



Transport

Guaranteeing safe high-speed travel



Industrials: Steel

Ensuring the durability of steel products



Global Challenge: Manufacturers Mitigating Supply Chain Disruption in The Post-COVID World



Supply Chain
Collaboration

Productivity near
shore

Speed of Change

Digital Twins of Eco-Systems – Rethinking supply chain resilience



Digital
Manufacturing

Resilience
Modelling

Digital Twins of
Products

Managing risk– Taking a new approach in a VUCA world

Risk Assessment

Severity	Disaster	High
Probability	Critical	Critical
Regularly		
Probable	Critical	High

Safety Case

Sensitivity

Scenario Planning

Conclusions: Creating a tactical plan



- **Peace of Mind Starts with data**

- Scenario modelling
- Managing decisions with trade offs
- Best Fit is not always a single solution

- **Developing a bullet proof supply chain requires**

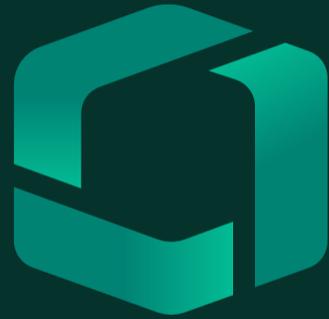
- New thinking on how to capture and share data
- Digital twins allowing predictive modelling to be complimented with real world data
- Preventing change requires a deliberate integration of information about assets and supply chain in collaboration

Quality of Data

Supply Chain
Collaboration

Scenario Planning

Digital Twins of
Products



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