

Supply Chain Resilience

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

Paul Perera – Strategy and Technology
Operations Director @Pereraps

Waygate Technologies – Agenda

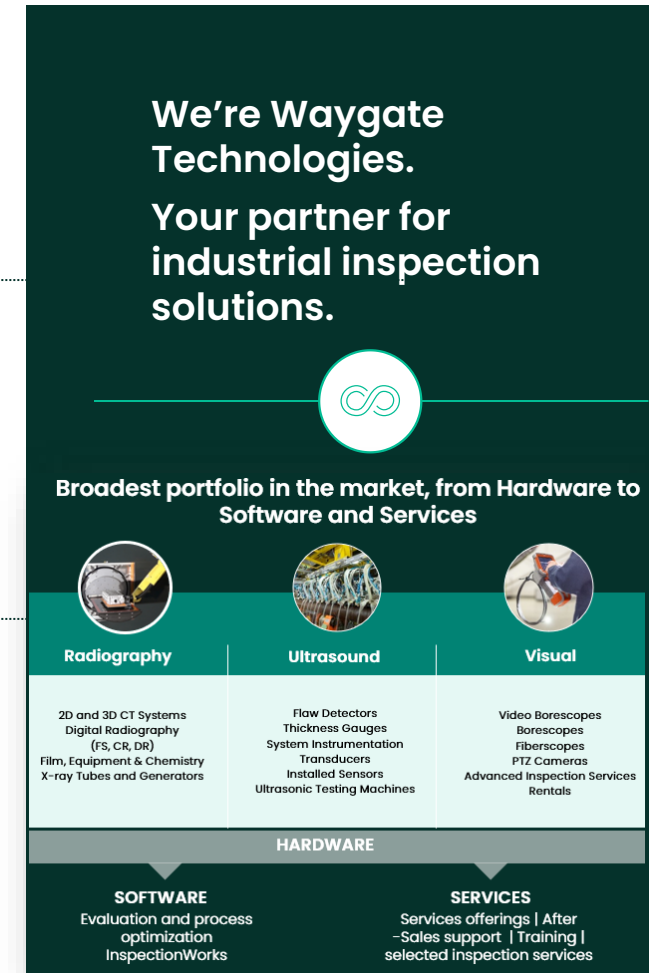


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Agenda

- **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



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

Safety Case

Sensitivity

Scenario Planning

Risk Assessment

Severity	Disaster	High
Probability		
Regularly	Critical	Critical
Probable	Critical	High
		Medium

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



**Waygate
Technologies**