



Supply Chain Assessment How the MTC can assess your supply chain

Cy Keogh
Senior Advisor – Business Transformation

Robustness and Resilience What is the difference

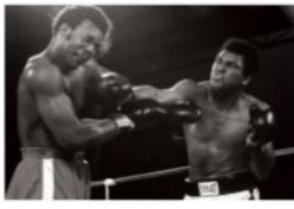
Robustness vs. Resilience

Robustness

 How much can you take before you fall down

Resilience

 How long does it take you to stand up again





#RIP_Muhammad_A (1941 - 2016)

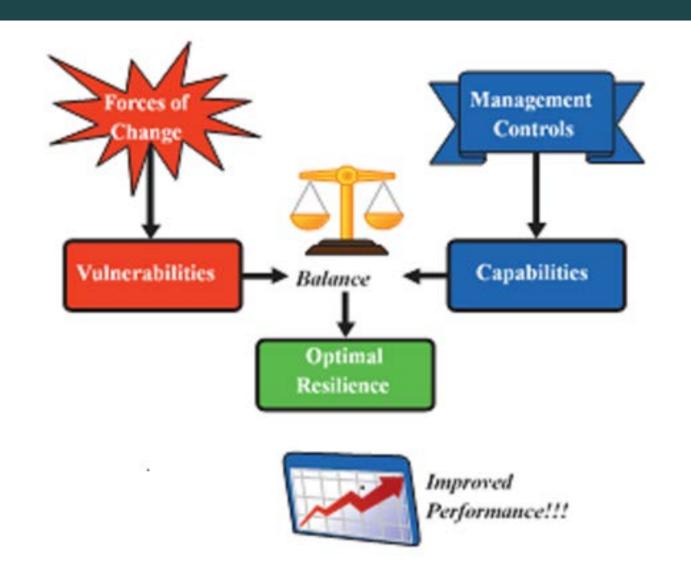
Robustness and Resilience

What is the difference

- Robustness: Robust systems can continue functioning in the presence of internal and external challenges without fundamental changes to the original system
- Resilience: Resilient systems adapt to internal and external challenges by changing their method of operations while continuing to function. Whilst elements of the original system may remain, there is a fundamental shift in core activities that reflects the system's ability to adapt to the new environment

The Resilience Framework

Tom Pettit - 2008



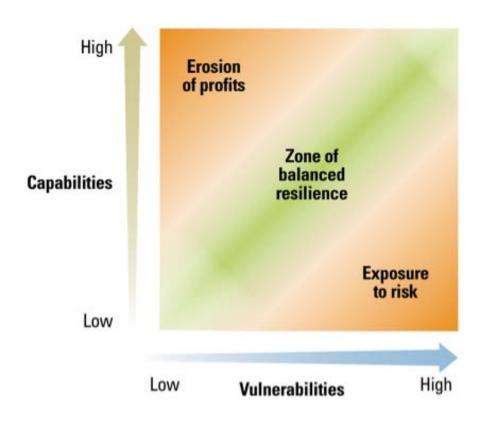
Resilience is therefore

 A balance between external disruptive forces that create vulnerabilities in an organisation, and

 The degree to which an organisation has developed the capabilities to adapt its behaviour to meet the current challenges.

The Zone of Balanced Resilience

An appropriate response is called for



FINDING THE ZONE OF BALANCED RESILIENCE

As vulnerabilities increase, companies may be exposed to undue risks and need to improve their corresponding capabilities. However, overinvestment in capabilities can erode profits, so companies need to find the zone of balanced resilience where their portfolio of capabilities is matched to their pattern of vulnerabilities.

Supply Chain Expertise

























Introduction to the MTC Resilience Assessment

The assessment Threads and Sub-threads

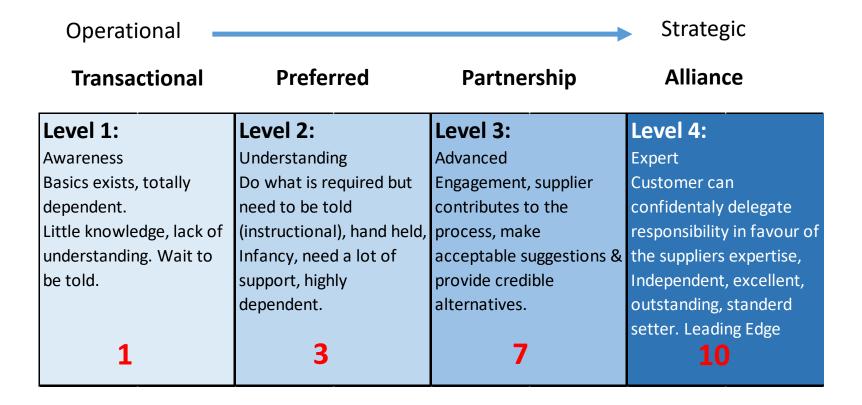
	<u> </u>
	Thread
1	Innovation & Technical Mastery
2	New Product Introduction (NPI)
3	Supplier Relationship Towards the Customer
4	Contract Management, Risk Management, & Security
5	Sustainability of Supply
6	Synchronisation of Supply
7	Supply Chain Organisation & Governance
8	Agility & Transformation

8 or 9 main Themes or Threads

Sub-Thread Questions Are we using innovation & new technology in our processes? Are we using innovation & new technology in our products? Have we got a systematic approach to technology introduction? Are we building strong technology collaborations and networks? How are we using data to support innovation?

5 sub threads for each main thread

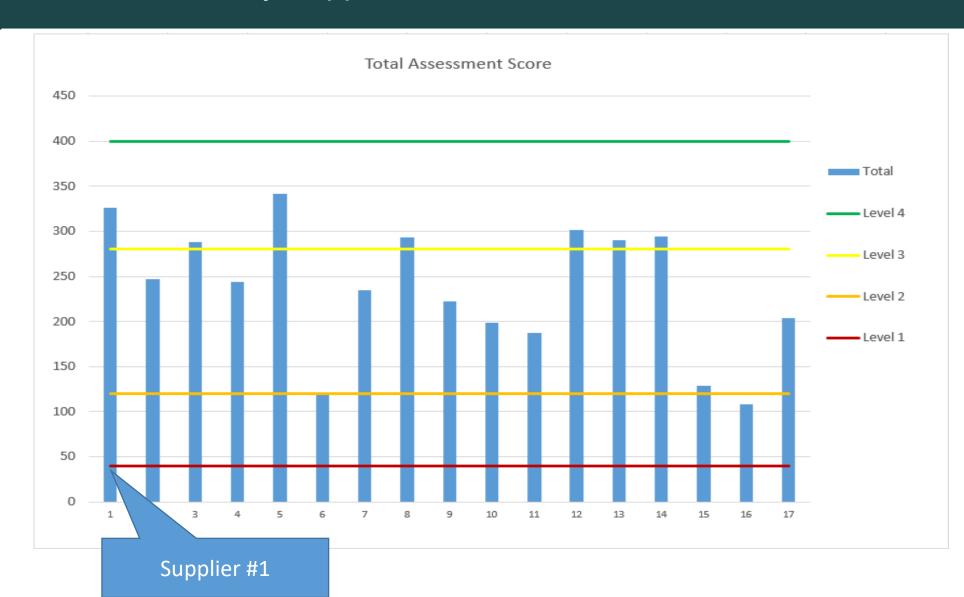
Introduction to the MTC Resilience Assessment Methodology – The 4 Levels of Maturity



160 – 180 (4 x 40) points of reference as a measure of capability

Assessment Results 1

Analysis: - Overall Score by Supplier



Assessment Results 1

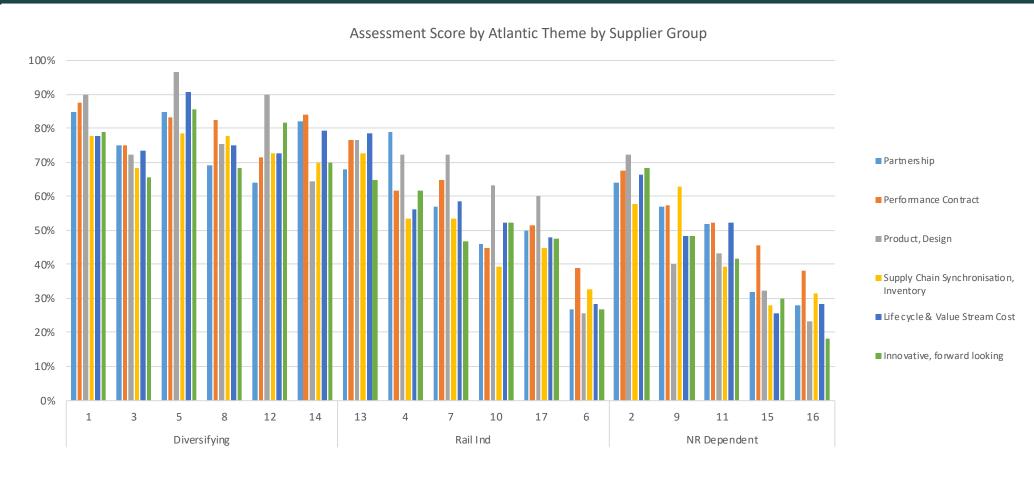
Analysis: - Overall Score by Supplier

- 1. Score and range vary significantly.
- **2. No supplier at level 4**. No trend-setter or role model.
- 3. Most suppliers above level 2;
- **4.** An <u>understanding</u> of the minimum requirements of capability. Some have a way to go.
- 5. 3 suppliers at level 2 or below
 Support needed to reach a sustainable level of supply capability. Foundation Programme?
- 6. Attaining Level 3 could be objective of Supplier Development Programme



Assessment Results 4

Analysis: - Score of Project Atlantic themes by Supplier Group



Diversified

Rail Sector

Dependent

Results – Deep Dive

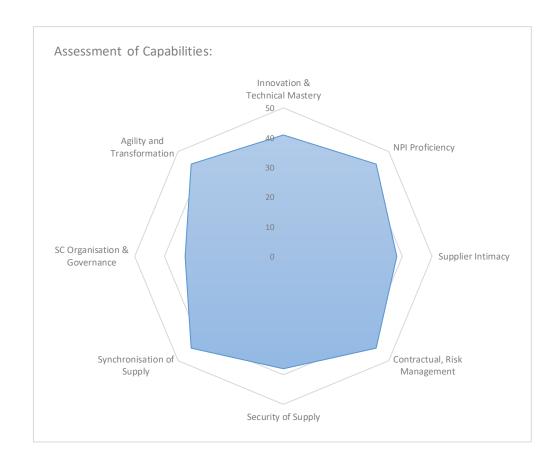
Areas for major concern level 1 & 2

Theme	Sub thread	Level 1	Level 2	No. of Level 3 Scores	Level 4	Total
7 Sustainability of Supply	Are we exposed to critical suppliers (e.g. materials, sub-assemblies, components, etc.)?		11	. 3	3	17
10Supply Chain Organisation & Governance	Fit in supply chain, business intelligence and control of their value stream (e.g. cost & waste management)	g	3	3 4	1	17
11 Agility & Transformation	To What extent are we Industry 4.0 ready? What plans have we in place to future-proof our business?	7	9	0	1	17

Supplier Capability Assessment Supplier #1

Diversified

- Customer Sectors: Automotive, Rail
- Special Processes & Services: Precision Grinding,
- Capacity, Utilisation:
- Other comments: Stretcher bar suppliers.



Resilience Factors

- 1. Digital Competence and innovation
- 2. Strategy
- 3. Supplier intimacy
- 4. Sustainability
- 5. Agility
- 6. Systems, Standards & Procedures

Supplier Resilience Assessment

Diversified

Supplier #1

- Customer Sectors: Automotive, Rail
- Special Processes & Services:
 Precision Grinding,
- Capacity, Utilisation: High/High
- Other comments: Stretcher bar suppliers.

Resilience Quotient: **78%**

Resilience - High /Robustness - High



Supplier Resilience Assessment

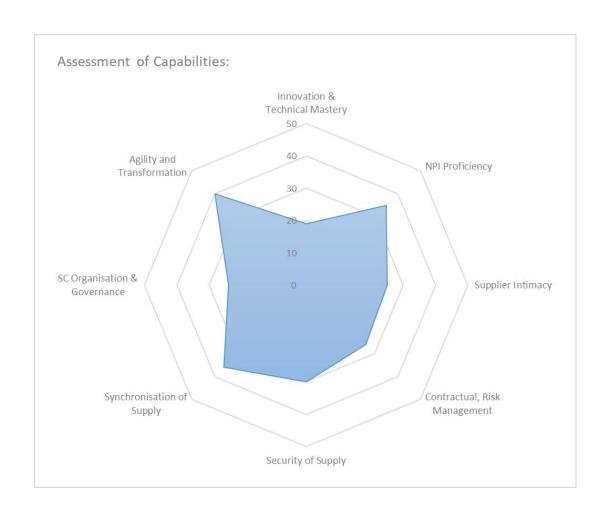
Supplier #2

Rail Industry

- Customer Sectors: Mostly Rail
- Special Processes & Services:
- Capacity, Utilisation:
- Main Suppliers:
- Other comments: Small company focused on pads but recent expansion into machines parts

Resilience Quotient: **57%**

Resilience - Low /Robustness - Medium

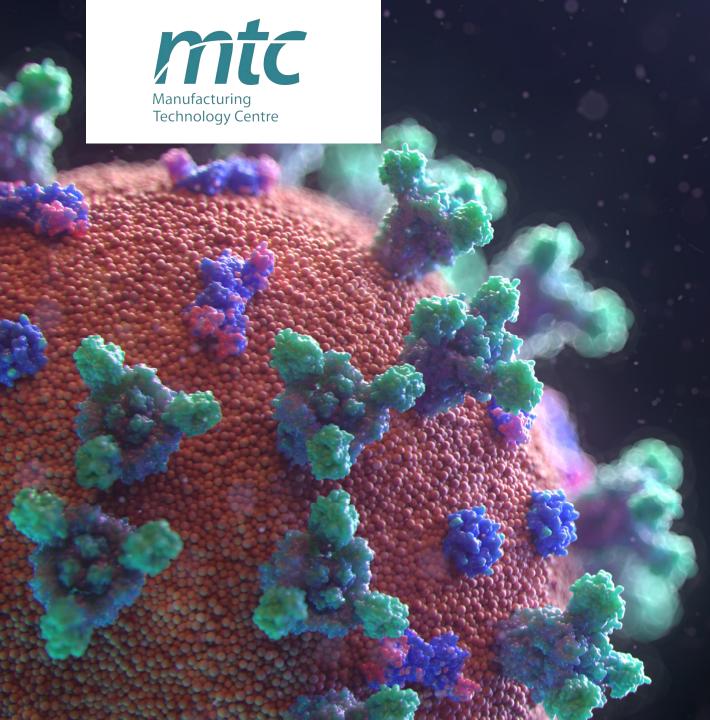






Q&A

Please submit your questions using the Q&A function at the bottom of your screens.



BOOK YOUR PLACE ON OUR UPCOMING WEBINARS

9th June 2020

Supply chains: Business not as usual

How can you reduce vulnerability of your business as a purchaser or as a supplier? Practical methods to assess risks and develop strategies.

23rd June 2020

Maintain productivity in a COVID-19 environment

Advice for social distancing in your factory, protecting your people and utilising technology.

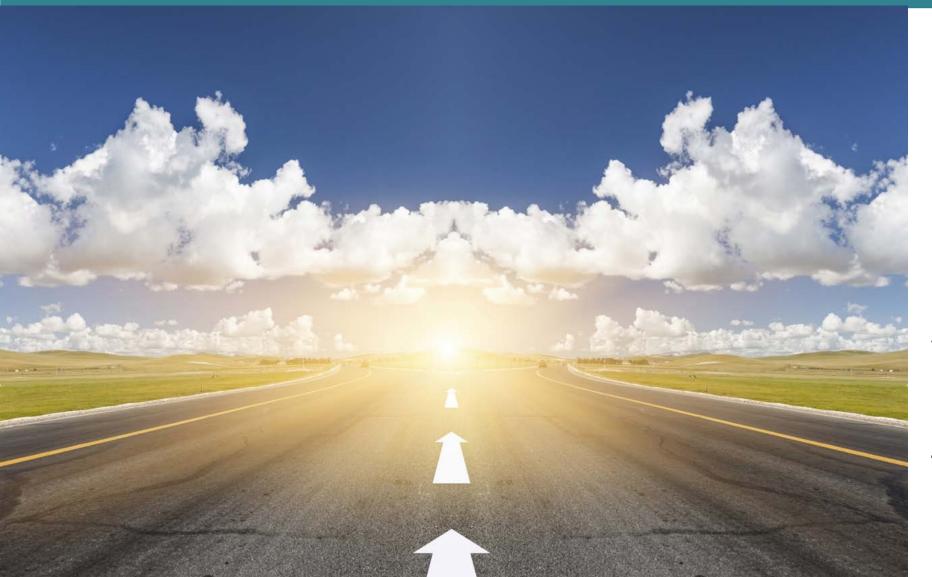
30th June 2020

Robotics and automation: Practical and affordable

steps

De-risking investment in automating your factory.

Thank you for your time Any Questions for the road ahead?



If you are an SME you can request a remote assessment of your business using the SCRL tool free of charge

For Internal Use Only





Thank you for listening

If you would like to speak to a member of our team about this webinar or the services we offer to manufacturers, please email:

mss@the-mtc.org