Supply Chain vulnerability in a time of crisis

Australian Food and Grocery Council 21 August 2020





- 1. Trifecta of Disruptions
- 2. The Pivoting Supply Chain
- 3. Supply Chain Risk Register
- 4. Getting started

Trifecta of
Disruptions: Three
most recent
challenges reveal
the need to build
more resiliency &
agility into supply
chains

Common themes:

- Most supply chains not able to withstand the unexpected
- Risk identification and structured mitigation processes not enough to build resilience

Bushfires



\$10M per day in delayed / lost revenues for grocers due to 12-day closure of Western Australia's 1.6KM Eyre Highway



5.5% drop in milk production due to road restrictions and infrastructure disruptions

Ransomware Attacks



Lost revenue, delayed deliveries for logistics providers and retailers resulting in poor consumer sentiment



\$70M in lost wool auction transactions due to cyber attacks on the central IT systems

The COVID-19 Pandemic



Dramatic freight rate fluctuations due to mass reduction in air freight capacity (e.g. Qantas halting Int'l flights until Oct 2020)

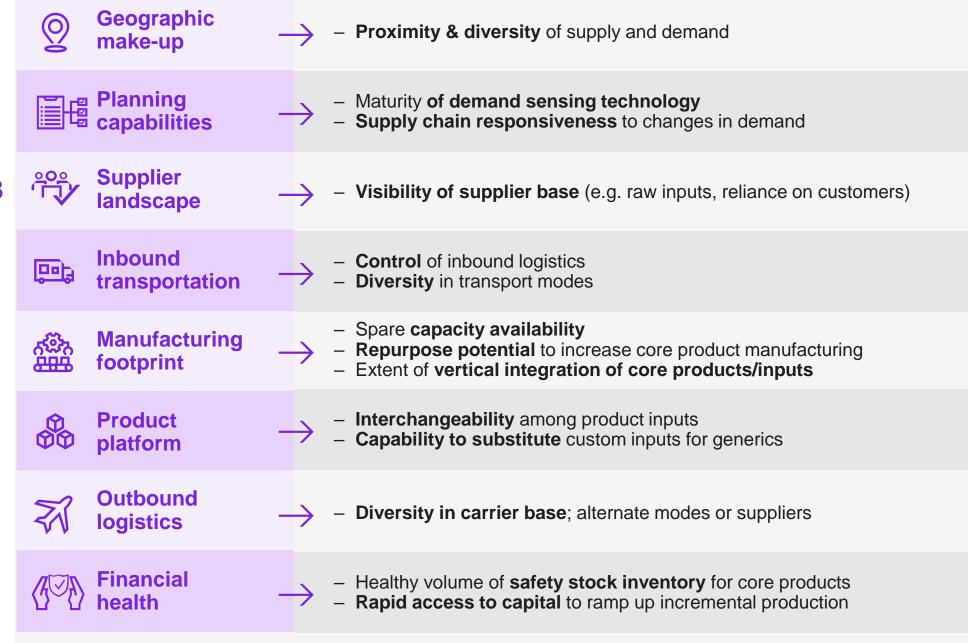


Consumer panic resulting in frequent stock-outs and more resources to run factories 24/7 to meet demand

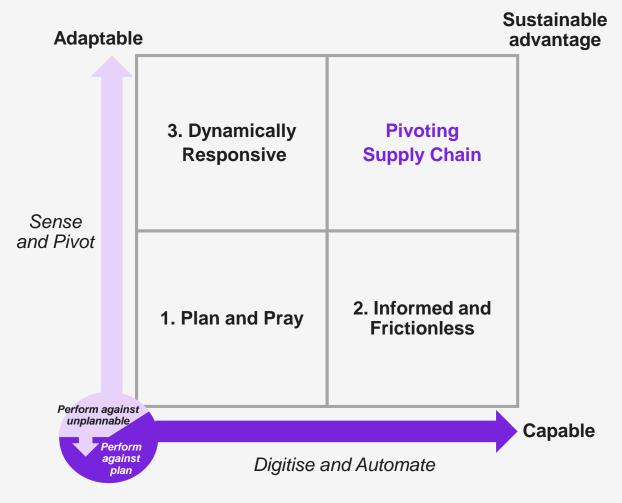


In search of an answer - Resilience: In light of recent volatility, companies can benchmark resiliency in their supply chains across 8 core dimensions

Non-Exhaustive



In search of an answer – Pivoting Supply Chain: Responsiveness & agility means having the ability to *sense* a changing environment and to *pivot* using digital & technology



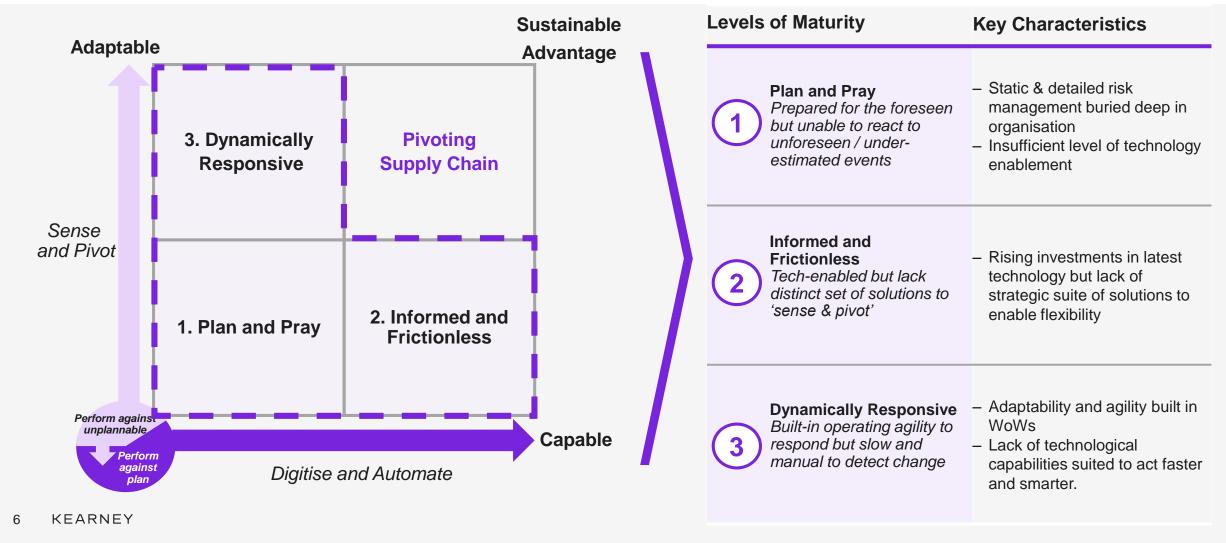
Digitise & Automate

Adopting technologies to develop a **COGNITIVE SUPPLY CHAIN** for E2E visibility and execution to pivot

Sense & Pivot

Creating a tech-enabled **SENSING PLATFORM** to capture market trends and early risk indicators

In search of an answer – Pivoting Supply Chain: We see companies at three broad levels of maturity before transitioning into a truly pivoting supply chain





Selected use cases across primary Supply Chain functions

Plan

- Predictive demand and supply planning utilise alternate consumer preferences/trends in real-time
- Touchless forecasting & replenishment -AI/ML enabled algorithms for automated triggers
- Rapid inventory deployment segmented shipment frequency, fwd. deployment / postponement

Source



- Real-time alternate sourcing decisions multiple make / buy options to balance service / cost
- Preemptive JVs / RFPs in response to M&A activity / other supply market disruptions
- Predictive VE / recipe changes in response to regulations, commodity prices, trends



AI / ML algorithms



Optimisation Models



Scenario Modeling

Make



- Scenario-based maintenance highfrequency prioritisation based on equipment criticality, failure probability
- Asset performance tracking & RCIs IoT enabled devices to plan for consistent mfg. capacity
- Agile production planning within "freeze" **zones** – adjust plans based on daily/weekly demand

Deliver



- Real-time product flow-path adjustments based on product segment and customer needs
- Predictive service/cost projections enabled by telematics. GPS-enabled services
- Manage unexpected service interruptions - rapidly crowdsourcing capacity w/ peers and 3PLs

Pivoting Supply
Chain – Operating
Elements: By
aligning to key
operating elements,
companies can
empower moves
that bolster supply
chain agility

Non-Exhaustive

Key operating elements



Streamlined layers

and clear decision rights for global, regional and local teams



Clear cross-functional accountabilities

and ownership that delivers process speed whilst breaking down supply chain silos



Agile & Digital pathways

to uplift supply chain capabilities and pivot readiness



Swift decision-making &

governance through E2E metrics, rich data-driven insights that inform performance mgmt. & customer-focused decisions



Guiding principles that challenge the norm and shape mindsets and

behaviors towards agility, responsiveness & speed

Empowered moves

(non-exhaustive)



Build Tech-enabled & Agile teams

Example: Real-time data & feedback to empower in-the-field line managers



Run regular reviews of risks and pivot tactics Supply Chain Risk Register

Example: Built-in flexibility in supplier contracts to on/off contingencies in other geographies, access to pre-approved 'emergency' finance



Create a Simulation-first Culture

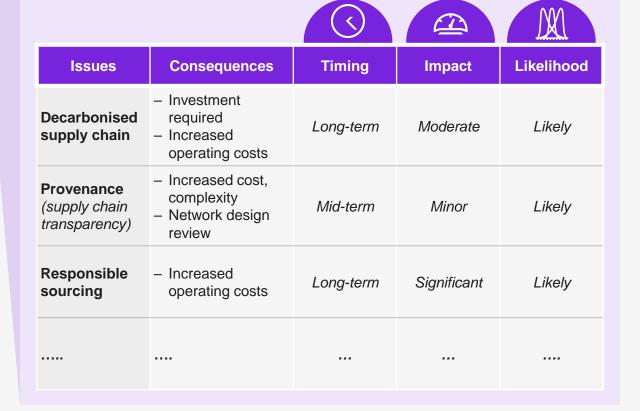
Example: Use of digital twin to stress test actions & simulate consequences

Supply Chain Risk Register – What is it?: AFGC and Kearney co-developed a launching point to identify 6 megatrends and systematically classify supply chain risks across and 3 dimensions

Mega trends

- Corporate social responsibility and sustainability
- 4th Industrial Revolution & Tech Adoption
- 3 Consumer centricity
- 4 Geopolitical Instability
- 5 Demographic Shifts
- 6 Urbanisation

Risk Register structure (example)



Keys to success

- Level of impact & probability regularly updated & shared at industry level (amongst AFGC committee members)
- Progressively
 more mature
 research &
 extensive
 modelling inputs

Supply Chain Risk Register – What can I use it for?: Embedding the risk register into your regular business decision making is an essential part of the journey

Structure the risk dialogue



Start a structured
 dialogue about the
 impact of
 disruptions &
 likelihood of risks

Stress test options



Facilitate
 simulation or
 wargaming
 exercises to help
 build and test
 options

Assess risk positions



Formulate and document industry and company positions on key issues

5 Risk Register use cases

Engage with relevant parties



Engage with regulators, suppliers and customers on coefforts to mitigate key risks

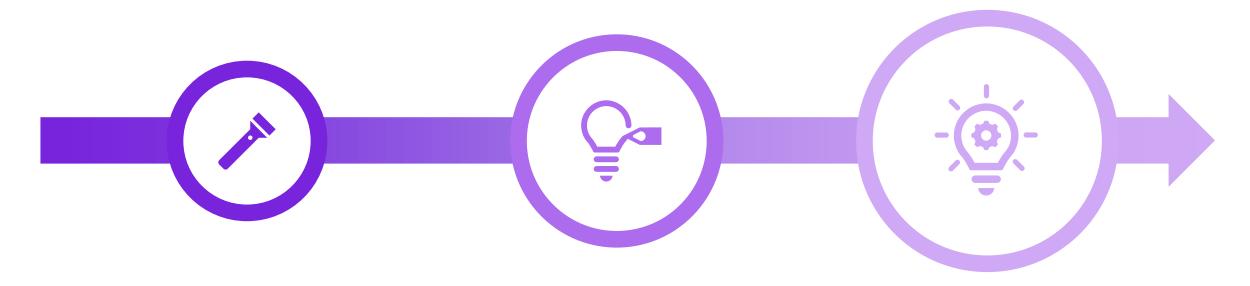
Gain access to expertise



 Provide a starting point to understand relevant expertise required to bolster capability



Your next step is to future proof your supply chain so that it is ready for the next big challenge



1. Identify

Utilise the supply chain risk register to identify and assess impact and likelihood

2. Plan

Plan for the expected and start dialogue around what might be beyond the horizon

3. Design and build

operating model, enabled by processes, technology and talent, to develop a 'Pivoting' capability in order to react to those risks as they eventuate

Thank you

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