

SUPPLY CHAIN RESILIENCE

In the time of Covid-19



Introductions



Sharne Usherwood



Bruce Ravesloot

How can we think about resilience in the supply chain space?

What are the resilience concepts and frameworks adopted by major actors in complex crises response globally?

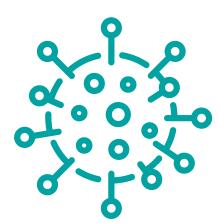


Overview

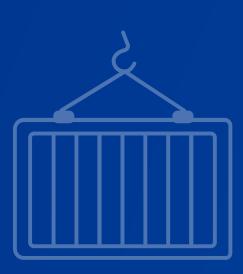
2



What can we learn from global resilience experience in the context of COVID-19 in NZ?



RESILIENCE AND SUPPLY CHAINS



Enterprise Resilience

Enterprise resilience can be considered to be made up of three factors:





Industry trends

- Supplier risk assessments and partnering
- End to end supply chain and supplier mapping projects
- Increased scenario modelling
- Increased communication with service providers and suppliers
- Prioritisation of demand
- Consider near-shore options to shorten supply chains
- Establish integrated business plans to synchronise across all business functions
- Restructure supply chains to be more robust
- Increase modelling capability predict customer behaviour, deal with uncertain events







Resilience defined

The ability of people, households, communities, countries, and systems to **mitigate**, **adapt** to, and **recover** from shocks and stresses in a manner that reduces chronic vulnerability and facilitates inclusive growth - USAID

Disaster Resilience is the ability of countries, communities and households to manage change, by maintaining or transforming living standards in the face of shocks or stresses - such as earthquakes, drought or violent conflict – without compromising their **long-term prospects**. - DFID Resilience is the ability of an individual, a household, a community, a country or a region to withstand, adapt and to quickly recover from stresses and shocks

- <u>EU</u>

The ability of a system and its component parts to anticipate, absorb, accommodate or recover from the effects of a hazardous event in a **timely and efficient manner**, including through ensuring the preservation, restoration or improvement of its essential basic structures and functions - World Bank/IPCC

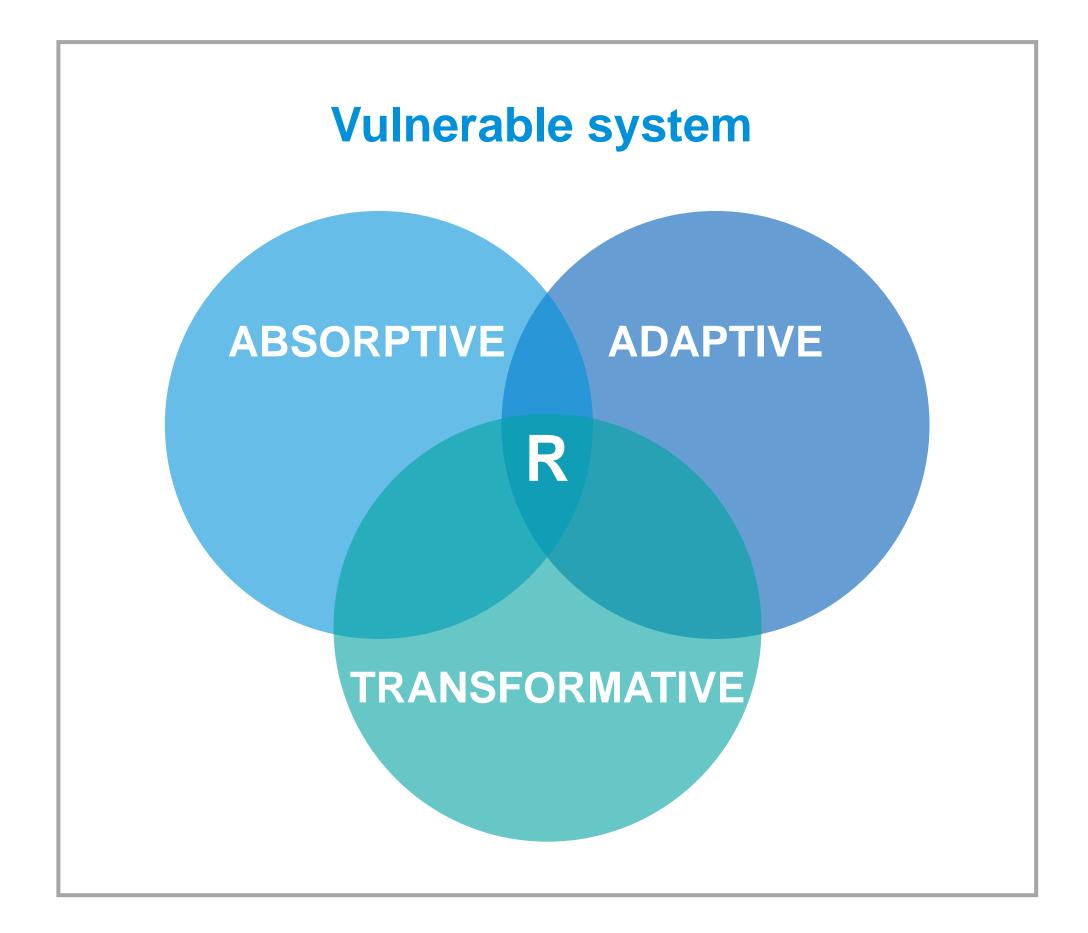


The Resilience Framework



Resilience capacities and attributes

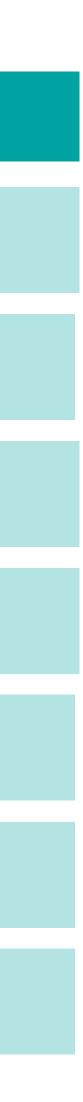
Resilience capacities



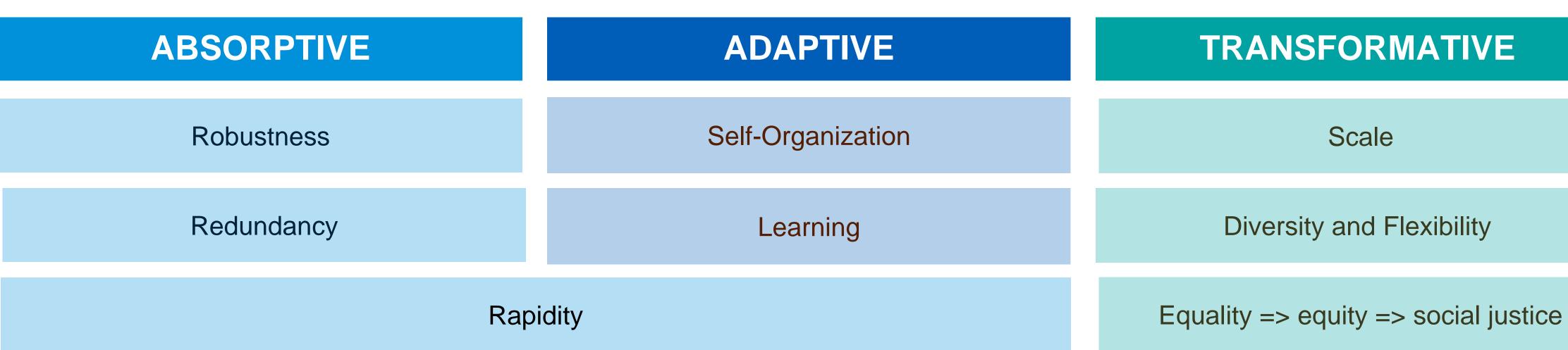
Resilience attributes Robustness **Self-organisation** Learning Redundancy Rapidity Scale **Diversity & flexibility** Equity

Resilience capacities and example components

ABSORPTIVE	ADAPTIVE	TRANSFORMATIVE
Bonding social capital	Bridging social capital	Bridging social capital
Informal safety nets	Linking social capital	Linking social capital
Shock preparedness & mitigation	Human capital	Formal safety nets
Hazard insurance (where applicable)	cable) Livelihood diversity	Access to markets
nazara modranoc (where apphoable)		
Household savings	Exposure to information	Access to infrastructure
Asset ownership	Asset ownership	Access to basic services
Conflict mitigation	Aspirations & confidence to adapt	Communal natural resources

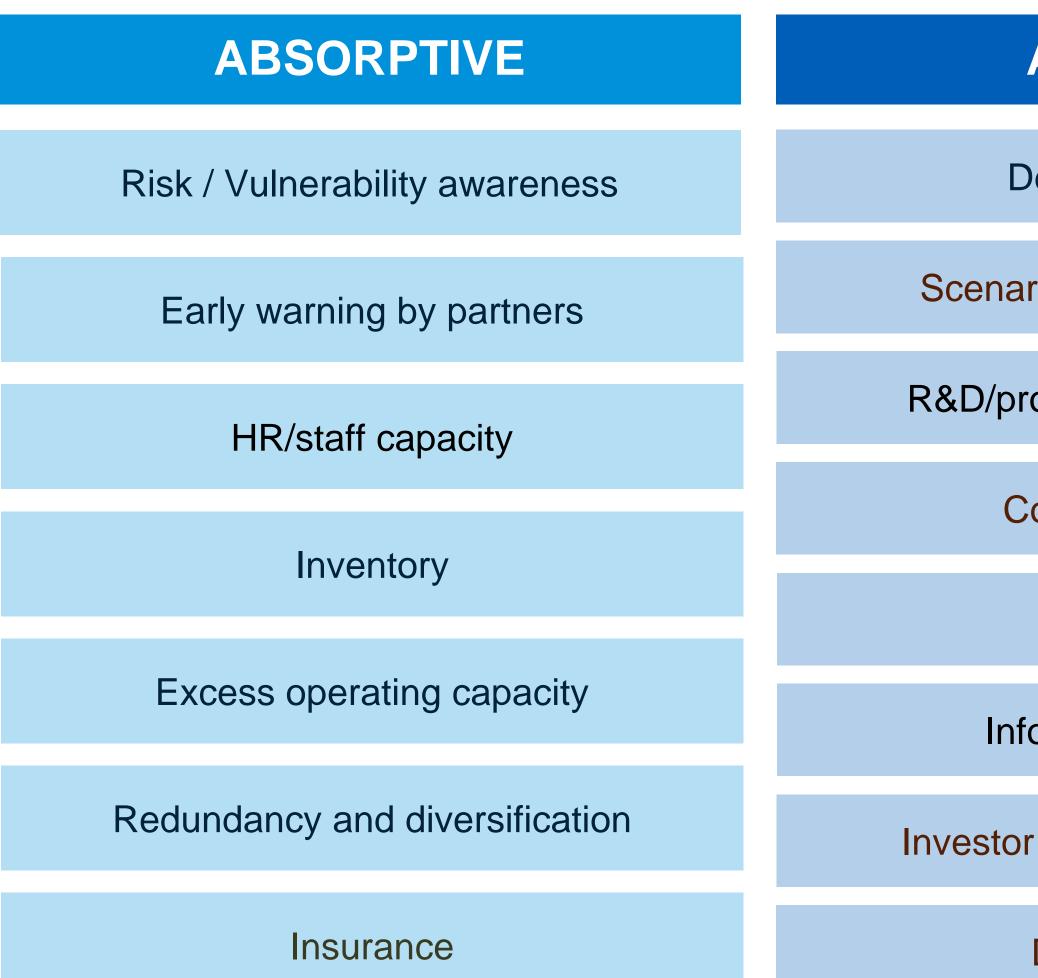


Resilience capacities and attributes





Resilience capacities in the business sector

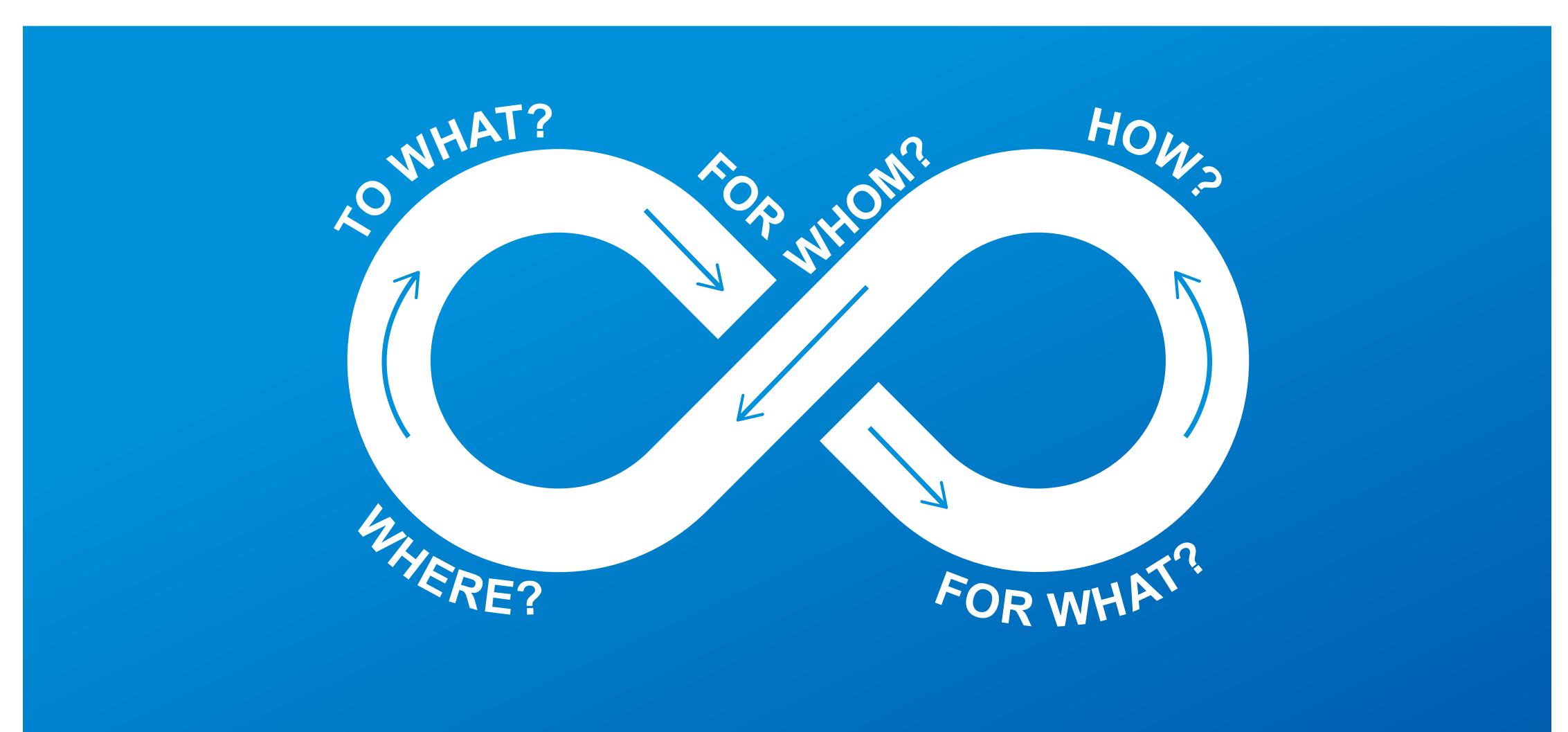


ADAPTIVE	TRANSFORMATIVE	
Demand sensing	IT and innovation	
ario-based forecasting	Flexible supply chain partners	
oroduct design capacity	Contingency planning at sector level	
Consumer loyalty	Non-competitive spirit	
Management		
formation visibility	Government assistance/relief package	
or flexibility and support	Consumer loyalty	
Diversification	Tax relief/support	





Operationalising resilience



Examples of resilience in practice

Nepal Earthquake

- Access to formal / informal safety nets
- Linking / Bridging social capital
- Access to information
- Livelihood diversification
- Education levels



East Africa Droughts

- Access to formal / informal safety nets
- Linking / Bridging social capital
- Asset ownership ; household savings
- Access to financial services
- Disaster preparedness and mitigation: info, trigger funds



Examples of resilience in practice

Ebola Outbreak

- Strong inclusive leadership and comms
- Social capital, community engagement
- Access to information / trust among health system stakeholders, flexibility in response
- Scenario-based planning / evidence

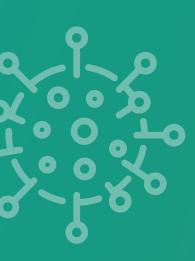


COVID-19

- Strong inclusive leadership and comms
- □ Social capital / buy NZ
- Access to information / trust among health system stakeholders, flexibility in response
- □ Scenario-based planning / evidence



RESILIENCE LESSONS LEARNED



Applying global resilience principles to supply chains

- How can we most effectively operationalise resilience in supply chains?
- How do we learn faster and share what we learn so we all improve?
- How do we continue to unleash the power of our people and fully leverage human and social capital?
- How can we use information and data more effectively to help us deal with disruption better and faster?



- How can create a robust, diverse supply chain in a costeffective manner?
- What impact will changing consumer behavior have on the way that we run our supply chains? Is now the time to transform?





DISCUSSION AND QUESTIONS

