



Vaxa

Enhanced Disaster Response Capability

**Linking Supply Chains between
Government, NGO's and Industry
during disaster relief efforts in Asia Pacific**

About the Vaxa Group

The Vaxa Group is a privately owned and dynamic organisation that works with Commercial, Government and NGO clients to deliver exceptional outcomes in planning, pre-preparedness, response and recovery from Disasters in the Asia Pacific.

Working closely with our clients and lead logistics partners we strategize, plan and coordinate to harness inventory, assets and resources to integrate Defence and commercial supply chains in delivering operational solutions to benefit locally affected infrastructure and communities.

Integral in providing integrated solutions is Todd Crowley, lead partner of Vaxa's Logistics, Supply Chain and Disaster Management Division.

Todd has over 15 years practical experience in designing and implementing complex logistics solutions and supply chains in austere and remote locations to assist in the pre-preparedness, response and recovery to natural disasters within the Asia Pacific. Working closely with Commercial, Defense and NGO supply chains, Todd has delivered solutions in response to:

- › Typhoon Haiyan
- › Cyclone Pam
- › Asian Boxing Day Tsunami





Owning and managing the vital materials required to effectively respond to and recover from a natural disaster and prepositioning in strategic locations lowers risk.

Our specific skills include:

Supply Chain and Logistics Modelling

- Integration of Defence, Commercial and NGO Supply Chains
- Strategy formulation and policy development (including strategic analysis)
- Program and project management of complex and diverse supply chain and logistics challenges in austere and remote locations
- Strategic communication, liaison and negotiation
- Operations including disaster and emergency management and evacuation planning
- Complex Government and commercial contractual negotiations
- Experience in developing and implementing complex plans (infrastructure, community development and complete service delivery) in remote regions, specialising in Asia Pacific
- Manage large and complex programs and projects that require strategic level experience .



Services available in the Asia Pacific in support of disaster relief:

Planning Services

- Overarching and local strategy development
- Scenario planning by type and scale
- Integrated Logistics
- Defence Supply Chain Integration
- Planning and Pre Positioning of key assets and resources
- Specify, pre-qualify and contract suppliers
- Supply Chain and Logistics Management, Integration and Co-ordination
- Managing Cross Border Movements
- NGO partnering agreements and Management of Donated Goods
- Stakeholder and Community engagement and agreements
- Resilience assessments
- Local asset surveys
- Disaster response de-brief and analysis

Physical Services

- Debris Management
- IT and Satellite Comms
- Cleaning Services
- Laundry Services
- Medical Facilities
- Recreation Services
- Camp Flood Lighting
- Furniture, Fixtures and Equipment
- Warehousing
- Freight Distribution
- Fuel and re-fuelling
- Facility Maintenance

- Potable Water
- Bottled Water
- Aerial Medical Evacuation
- Security Services and cash management
- Generator Units
- Air Charters
- Waste Management
- Temporary Fencing
- MRE's
- Vehicle Maintenance
- Additional Cadaver Storage
- Airfield Support

Vaxa case study

Vaxa's key personnel were called upon by the Commonwealth (Department of Immigration and Citizenship – DIAC) to co-ordinate the mobilisation, operation and de-mobilisation of an emergency 400-person camp on Manus Island, P.N.G in 2013.

Given 12 hours to mobilise, Vaxa's key personnel designed a fit for purpose logistics solution and supply chain to procure, transport and build a 400-person camp within 7 days in a remote location.



The scale of the operation included:

Procurement	<p>Shelter solutions for 400 people (Sydney)</p> <ul style="list-style-type: none"> › Water Treatment Plant (Port Moresby and Brisbane) › Sewage Treatment Plant (Brisbane) › Generators and Air conditioning (Sydney and Port Moresby) › 440,000 litre water tanks (Perth) › Recreational Hall (Sydney) › 400 person Kitchen (Sydney) › Ablutions (Lae, Port Moresby and Brisbane) › 50 x 20' containers
Road Transport	25 x B-Doubles from Nowra to Sydney
Air Charter	<p>4 x Antonov 124 Flights Sydney to Port Moresby</p> <ul style="list-style-type: none"> › 1 x Antonov 124 Flight Brisbane to Port Moresby › 14 x L100 Hercules Flights Port Moresby to Manus Island › Ground Handling › Cargo Handling – 23 t fork, 80t crane, low loaders, lay down areas
Sea Charter	<ul style="list-style-type: none"> › 1 x 110ft Landing Craft – 26 x 20ft containers Port Moresby to Manus
Customs and Quarantine	<p>Expedite clearances from 3 months to 1 day</p> <ul style="list-style-type: none"> › Arranged Diplomatic Clearances with Australian High Commission
Stakeholder Engagement	<p>PNG PM's office</p> <ul style="list-style-type: none"> › PNG Customs, Quarantine and Immigration office › Australian Immigration Minister › Australian High Commission Port Moresby › Suppliers (Aust. and PNG)
Construction	<ul style="list-style-type: none"> › Entire camp facilities built within agreed timeframe

Fast and efficient start up

Traditional logistics provision – example of emergency accommodation provision

Pre-event	Pre-event	+24 hrs	+48 hrs	+72 hrs	+92-120 hrs
<ul style="list-style-type: none"> › Limited Planning containers 	<ul style="list-style-type: none"> › Government and NGO assessment of need providers 	<ul style="list-style-type: none"> › Potential providers - contacted 	<ul style="list-style-type: none"> › Agree to terms of provision 		<ul style="list-style-type: none"> › Dispatch, delivery and occupation

Recommended Vaxa model

Pre-event	Pre-event	+24 hrs	+48 hrs	+72 hrs	+92-120 hrs
<ul style="list-style-type: none"> › Extensive Planning, procurement, terms and pre-positioning, liaison with interagency departments 	<ul style="list-style-type: none"> › As soon as declared safe, network of regional providers activated and mobilised 	<ul style="list-style-type: none"> › Dispatch planning complete and 	<ul style="list-style-type: none"> › Camp constructed and occupied 		



Our Value Proposition:

Vaxa Group believes that the 'next generation' of disaster response is here and now.

With over 15 years of hands on proven past performance in delivering solutions and services in Disaster Logistics, Vaxa have identified that further advance logistics and supply planning and coordination will better position future response capabilities, especially in identifying and executing the supply of rapid response humanitarian solutions.

Vaxa's innovative solution focuses on providing an integrated, well-coordinated and transparent logistics and supply chain to ensure that the right product is in the right place at the right time, prior to and immediately post a significant event, without the cost burden of full time resources or Capital Equipment costs.

Our model is based on identifying logistics and supply responses, ahead of need, in a practical and cost-effective manner. With existing supplier agreements in place with pre-approved regional providers, we undertake thorough reconnaissance of each region prior to and post an event.



Disaster response can be improved with

- improved certainty of actual inventory available for deployment (prequalification, including fixed costs)
- backed with assured logistics supply chains (also prequalified)
- Based on our observation of what is actually required, and with approval of the relevant coordination authority, we can assist implement a seamless and fit for purpose solution to any impacted regions. This ensures resources and equipment are distributed effectively and efficiently as possible after an event.
- Complementing existing roles, jurisdictions and resources



We can improve disaster response in partnership

The Vaxa disaster response platform enhances current methods:

Desired performance		Current logistics capabilities	Enhanced Logistics Solution
Integrated	Integrated private and public sector supply and logistics response	› Dependent on ability of multiple suppliers to mobilise	› Fully prepared, integrated and tested disaster response logistics network › One point of contact and coordination
	Logistics integration with existing disaster readiness and response	› Dependent on multiple provider capabilities, with highly variable outcomes	› Logistics response fully integrated with Government emergency planning and response 'machinery'
Responsive	Highly responsive, with optimal lead times to deliver recovery response	› Primarily reactive, with some limited pre-mobilisation, depending on location and scale	› Preparation includes scenario planning and rapid surge capabilities
Scalable	Flexible response depending on stage of response and recovery	› Scale identified as needed in response to disaster, with lead times dependent on ability to mobilise	› Fully scalable depending on location and scale of necessary response, with demobilisation contingencies
Cost efficiency and transparency	Cost transparency	› Limited transparency of cost and cost charging	› Cost transparency –reduction of margin on margin on margin scenarios
	Cost efficiency and certainty	› Subject to cost uncertainty and escalation, with limited ability for Government to influence during emergency response	› Cost scenarios identified, fixed as possible and regularly tested for currency
	Minimal inventory holding costs	› Unclear/ inconsistent inventory levels and security	› Minimised inventory holding costs (High inventory access confidence when needed)
Efficient Administration and Assurance	Supply certainty -specialist emergency inventory	› Limited/ inconsistent supply certainty	› Increased supply capabilities, e.g. emergency accommodation
	Efficient administration	› Multi-layered reporting and invoicing	› Streamlined and efficient reporting & invoicing
	Assured contract management and service delivery	› Multi-dimensional and complex contracting often in high pressure circumstances	› Assured contract management; contracts and contract management processes pre-approved.

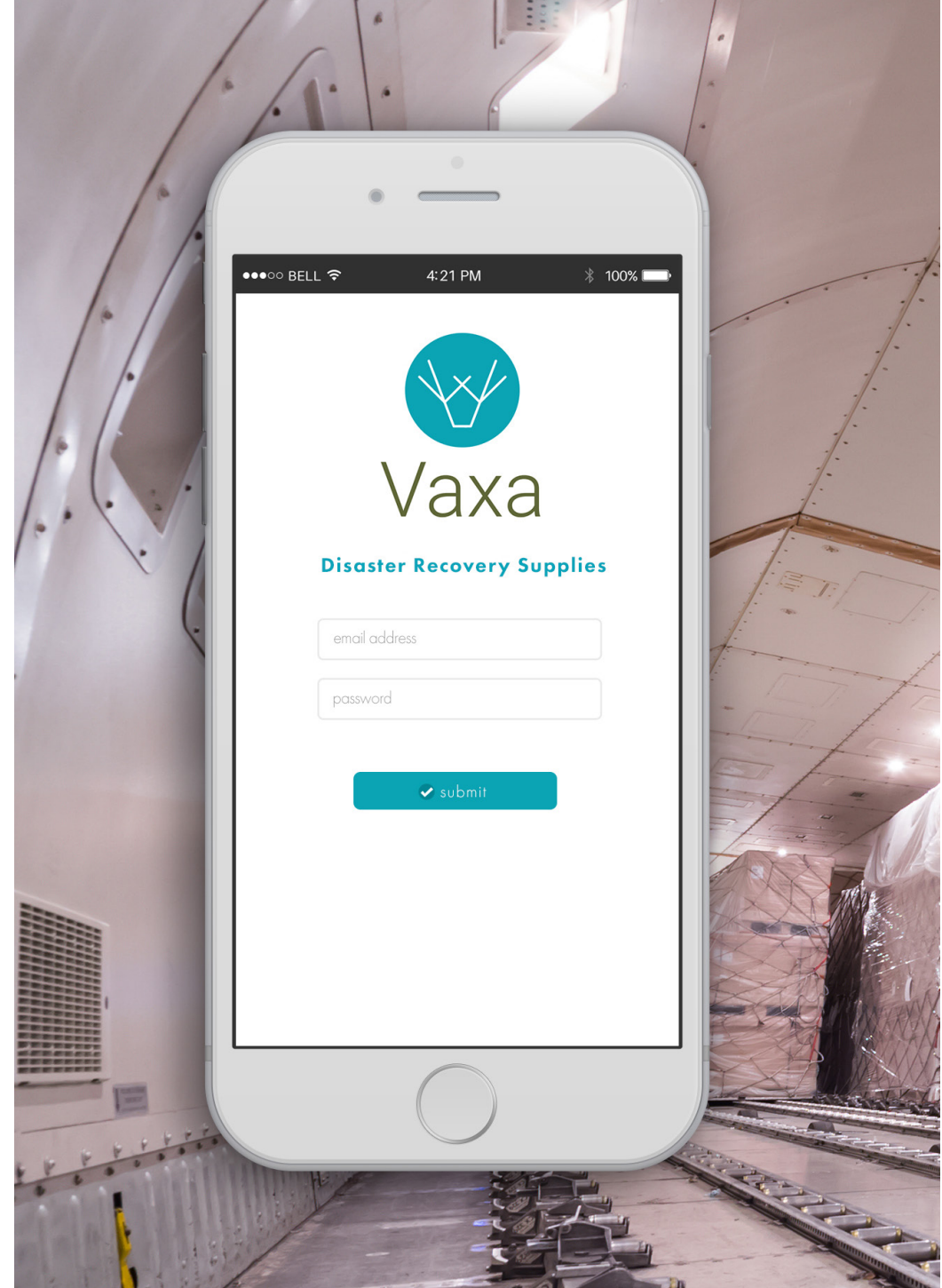
Our key differentiator:

- Creation of single portal for government or coordination agencies to source all disaster related services, supplies and provisions, at fixed cost.

App programmed with verified supply chain:

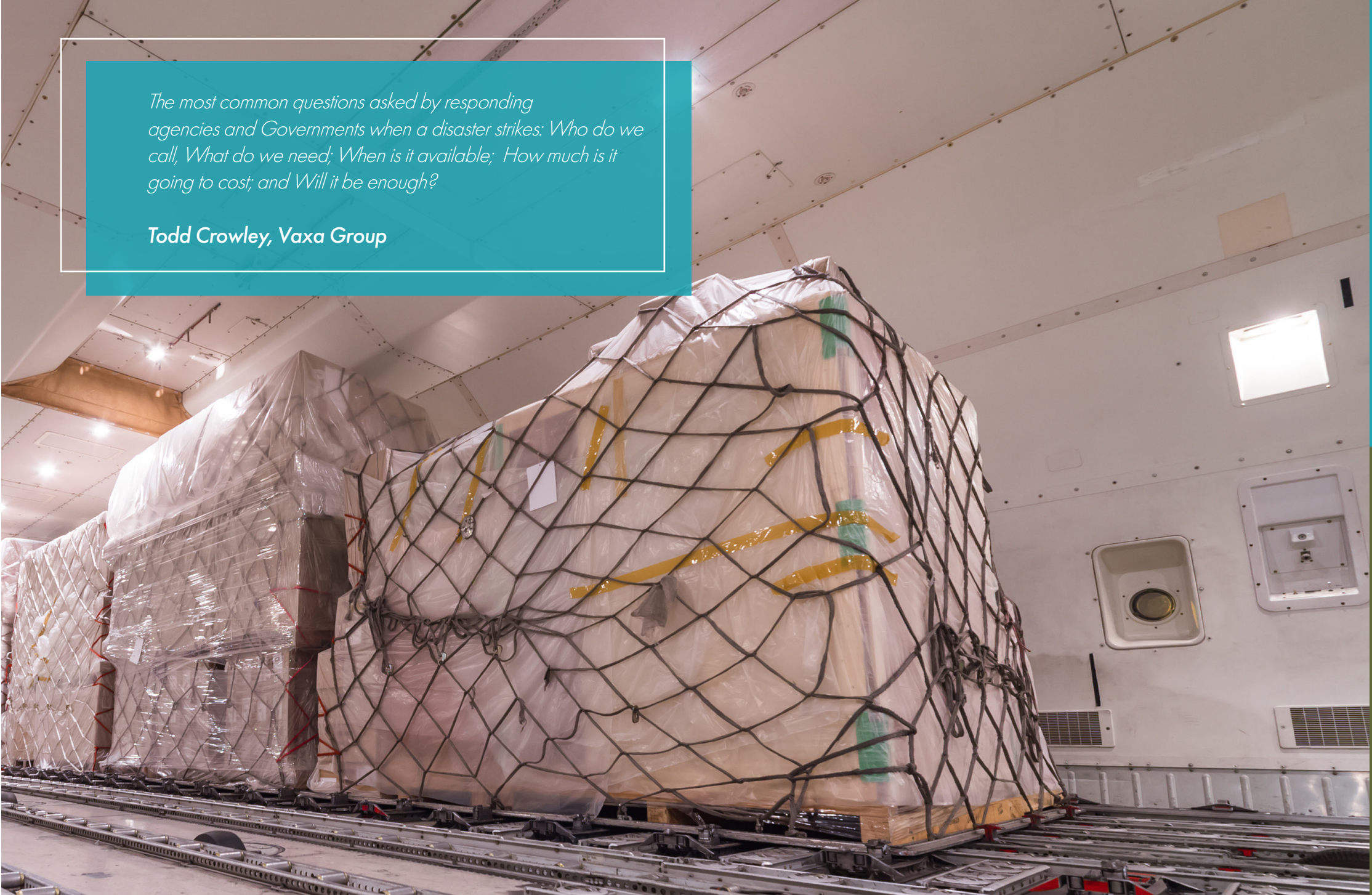
We are currently developing this application for resources with the Australian Government

- Supply needs for disaster recovery fully specified and itemised
- Suppliers pre-qualified, with verified inventory levels (close to real time)
- Participating suppliers update inventory selection, levels and costs on monthly basis
- System is tested and primed when threat is identified
- Coordinated by government authority through supply chain interface when needed



The most common questions asked by responding agencies and Governments when a disaster strikes: Who do we call, What do we need; When is it available; How much is it going to cost; and Will it be enough?

Todd Crowley, Vaxa Group





Reactive vs Pre-positioned

At present, there are no existing pre-positioned, all-encompassing solution within the Asia Pacific. First responders are reactive to a situation, relying on multiple providers to rally resources and mobilise to meet demand. Our solution provides multiple prepared entire integrated logistics solutions.

The Vaxa Group possess extended networks of suppliers who are able to mobilise goods and services at short notice to integrate into a Defence/Government and NGO Logistics and Supply Chain solution.

Cost Benefit

What is the financial and emotional cost of being reactive to a communities needs after a natural disaster compared with being proactive? Vaxa propose to provide a value for money “insurance policy” that ensures community satisfaction and minimal out of pocket expense.



We can improve disaster response in partnership with Commercial, Defense and other supply chains

The following resources and capability within our network exist across the region. They are continually networked, tested and coordinated, particularly to be on a permanent response readiness.

Country	Available Goods
NZ	➤ Ablutions; Generators; Building Materials; Labour; Project Management; Transport (air, sea, land); Material Handling Equipment (MHE); Portable Water; Medical Supplies; Medical Specialists
Australia	➤ Ablutions; Generators; Waste Treatment Plants; RO Plants; Temporary Accommodation; Project Management; Meals Ready-to-eat (MRE's); Medical Supplies; Medical Specialists; Temporary Housing; Portable Morgues
Indonesia	➤ Fuel, Transport (Air, Sea)
Malaysia	➤ Transport (Sea); Building Materials; Fuel
USA (Hawaii)	➤ Meals Ready-to-eat, Bottled Water; Transport (Air, Sea); Fuel; Generators; Temporary Accommodation

Our Experience

We are continually called upon as a trusted partner of multiple Government, Commercial and NGO bodies to provide planning, contingency and sustainment solutions in times of need. Following is an example of our past performance.

Organisation	Solution	Year/Duration
Queensland Government Tropical Cyclone Ita Emergency	› Logistics and Supply Chain Modelling and Procurement; Delivering of Contingency and Sustainment support	› 2014
United States Navy Asian Boxing Day Tsunami	› Logistics and Supply Chain Modelling and Procurement; Operational Implementation and Commercial Negotiations; Delivery of Contingency Sustainment Support	› 2008
Queensland Government Bundaberg Flood Emergency	› Logistics Supply Chain Modelling and Procurement; Stakeholder Relations; Delivery of Contingency and sustainment support	› 2013
DIBP Emergency Accommodation Program – PNG	› Logistics and Supply chain Modelling implementation; Government Relations; Community Consultation; and Implementation ; Delivery of contingency and sustainment support	› 2013
Tropical Cyclone Pam - Vanuatu	› Logistics and Supply Chain Modelling and Procurement; Government Relations	› 2015
Typhoon Haiyan – Philippines Royal Australian Navy	› Logistics and Supply Chain Modelling and Procurement	› 2013
NZDF Christchurch Earthquake	› Supply Chain Modelling and Procurement; Government Relations; and Implementation	› 2010
Tropical Cyclone Larry – Queensland Government	› First response Logistics; Ground Field Assessment; Reporting	› 2006



The Vaxa Group



Todd Crowley

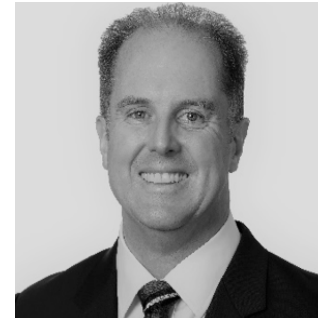
Logistics and Supply Chain Planning and Delivery

AGSVA Security Cleared; MSIC; CMILT

Todd is a Supply Chain and Logistics specialist with over 20 years practical experience delivering projects in remote and austere environments, specifically within the Asia Pacific region.

Todd provides his clients with practical and pro-active planning and pre-preparedness to meet surge requirements in delivering contingency and sustainment programs, assisting them to make informed community and commercial decisions.

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Andrew Drummond

Consultant

Bachelor of Science (UNSW)
Management of Risk (Practitioner)
PRINCE2 (Foundation)
Associate Diploma in Personnel Administration

Andrew is an executive leader with more than 20 years' professional experience in global organisations including government, commercial and private management roles. His professional background is borne from a global leadership pedigree as a military leader with career-long exposure to unique and demanding challenges. His experience stems from various key appointments in program, operations, risk and people management.

The Vaxa Group



Steve Roughsedge

Program Manager

MBA

BSC (Physics)

Dip Project Management

PMP

Commercial Pilot

Steve is a seasoned, highly effective program manager who has achieved significant success in winning new business, and establishing and managing business operations across the IT, airline and logistics sectors for more than 20 years. He is a strategic leader with strong technical competencies, and specialises in developing and delivering solutions for complex programs within the government and commercial sectors including organisations such as the ADF, the AFP, United Nations, Qantas Airways, Toll Holdings and Etihad Airways Group.

Steve's experience has enabled development of functional expertise across all major business disciplines, in addition to project management, quality and compliance assurance, business risk analysis and continuity planning and corporate governance.



Greg Bourke

Commercial and Governance

Greg has direct disaster response and coordination experience as a first responder with the Queensland Department of Premier and Cabinet following Cyclone Larry in 2005.

Greg was an influential contributor to the evaluation report prepared in response to the Cyclone Larry disaster, which shaped contemporary disaster management governance.



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