

Real Time Evidence-Based Decision Making Tools for Enhanced Disaster Resilience – Technology Empowering Local, Regional & National Stakeholders

Australia is recognised as a world leader in disaster resilience due to the mitigation structures, policies and procedures it has in place, and the frequency of significant events it faces. However, as disasters develop and with multiple stakeholders involved (including communities and volunteer organisations), coherent situational awareness, co-ordination and control can be complex and challenging.

A networked crisis management software toolset can mitigate these challenges by providing real time situational awareness and decision support to empower connected users; enabling communities to both contribute to and leverage common situational awareness and plans. 4C Strategies' COTS Exonaut Software is one such Incident & Crisis Management Toolset.

Principle	Exonaut Solution
Comprehensive	Exonaut supports a comprehensive approach to emergency management by providing integrated solutions which support all phases - prevention, preparedness, response, and recovery. These phases of emergency management are not necessarily sequential therefore users can easily switch between solutions or just operate within single solutions.
Collaborative	The Exonaut platform provides tools to enable collaboration. With one single solution multiple users can be logged in at the same time, sharing information and communicating. Exonaut provides a 'one stop shop' and a single environment where the emergency management community can collaborate remotely or in the ops room.
Coordinated	Exonaut supports the ability for organisations to deliver a coordinated response. Information sharing is at the heart of the Exonaut emergency management solution. Whether this is information on resources, situational reports, status updates or geographical information, data is pulled together and visualised through interactive dashboards to support the coordinated response. Activities of all stakeholders are synchronised and integrated. Information is shared to achieve a common purpose and impacts and needs are continuously assessed and responded to accordingly.
Flexible	The Exonaut software provides the flexibility required when responding to emergencies. Plans can be updated, amended and shared in real time and on the go, as the situation changes. New tasks can be created as the situation develops so plans can remain as flexible as possible. Exonaut delivers innovation through its mobile application, whether using geofencing of resources or capturing picture and video in real time and relaying back to a coordination centre, Exonaut delivers innovative solutions to typical emergency management problems.
Risk based	Exonaut emergency management comprises a risk module based upon ISO 31000. It supports the user through the entire risk management workflow including the allocation of resources to manage risks. Once collated into the tool all threats and hazards can be visualised into customisable dashboards to give commanders a full view of the entire hazard landscape they are faced with. Risk based planning will anticipate the effect of efforts, the changing hazard landscape and the changing consequences of the emergency.
Shared responsibility	Exonaut allows different agencies and parts of the community to use the same tool when undertaking their shared responsibility but when required can integrate all aspects together into a unified response.
Communication	Exonaut provides Emergency managers with a common information system. Furthermore, through a raft of different channels and all controlled by permissions models, Exonaut enables emergency managers to provide and share clear, targeted and tailored information to those who need it, and to those at risk, to enable better decision making by all stakeholders.
Integrated	Exonaut provides a single platform for all agencies to collaborate in one tool, ensuring the engagement of the whole of governments, all relevant organisations and agencies, the business sector and the community.
Continual improvement	Exonaut delivers a comprehensive lessons management system which allows organisations to continuously learn and innovate to improve practices and share lessons, data and knowledge so that future emergency management is better and the overall cost of impact of emergencies and disasters is reduced. Exonaut delivers the tooling to provide continuous monitoring, review and evaluation that can examine the processes, timelines and outcomes of plans. Exonaut can inform communities and displays transparency and accountability.

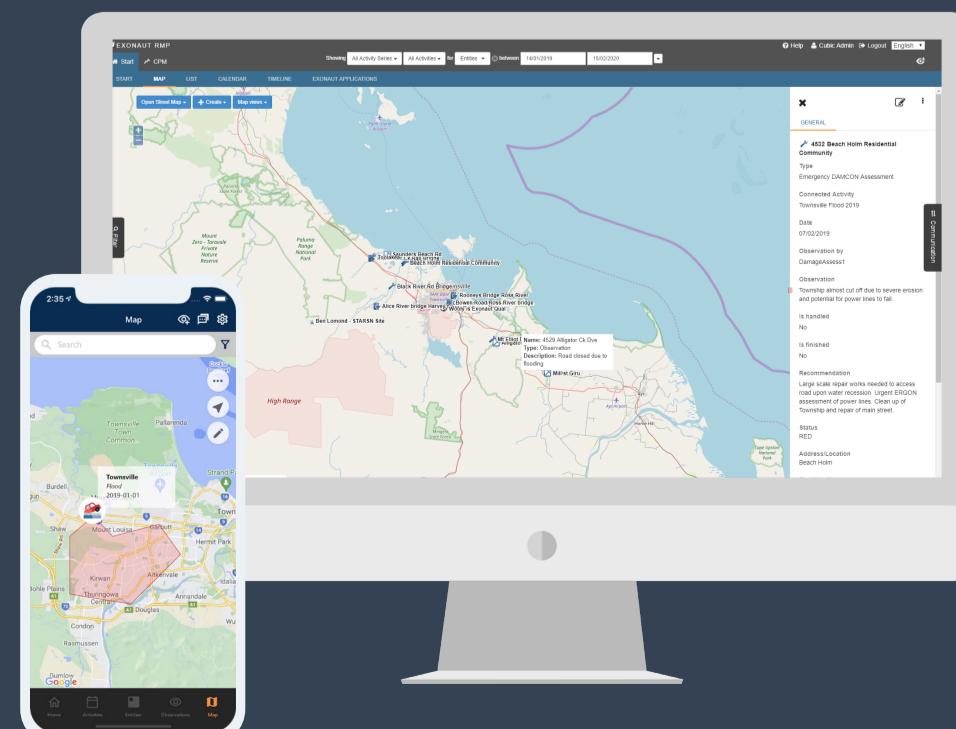
Principles of Emergency Management

Exonaut Use Cases

TOWNSVILLE FLOODS 2019

Real Time Situational Awareness

Secure reporting of flood site information via mobile Apps (IOS & Android) & live common operating picture of the developing situation.



SWEDISH NATIONAL BOARD OF HEALTH AND WELFARE

A Common Operational Picture For Covid-19 Response

Collection and management of COVID-19 data and resource requests for coherent resource management.



EUROPEAN EXTERNAL ACTION SERVICE (EEAS)

Digitalising Crisis Management

Consular crisis management portal for EEAS & EU member states.

