

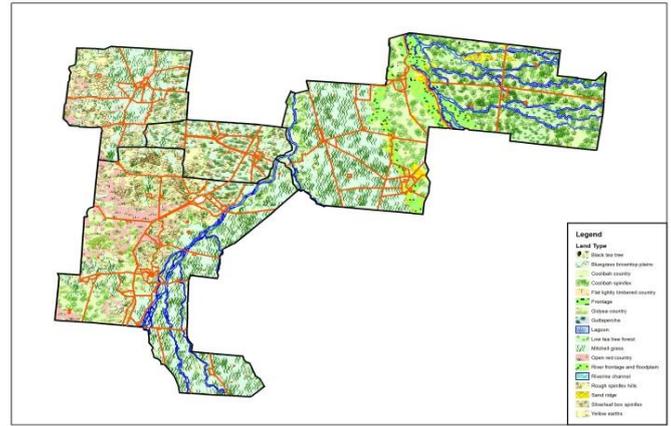


# The NRM Spatial Information Hub

Providing rangeland managers with information for better decisions

The NRM Spatial Information Hub (The Hub) is a central element of the 15 year blueprint of the Australian Rangelands Initiative. The aim of the Hub is to provide land managers with systems, tools, data, and skills needed to dramatically improve access to farm-scale information and knowledge. These capabilities will underpin better management decisions and measureable improvements in landscape condition and productivity.

- The ability to work off-line using their own software and capture information in the field using hand-held devices such as GPS and Smartphones.



Users will be able to produce standardised digital farm management plans using the latest available high resolution satellite imagery and on-line mapping tools.



Using proven technologies and approaches, the “Hub” will seamlessly deliver information to managers from paddock to national scales leading to improved productivity, land condition and conservation outcomes.

## The on-line farm planning and information system

The system will provide all regional bodies and land managers with appropriate data and mapping tools to enable the consistent development and maintenance of comprehensive digital farm plans, infrastructure maps and plans of on-ground work across the rangelands.

The system will provide users with:

- Secure on-line access to authoritative spatial data such as high resolution and time-series satellite imagery

## Coordination, information delivery, support and training services

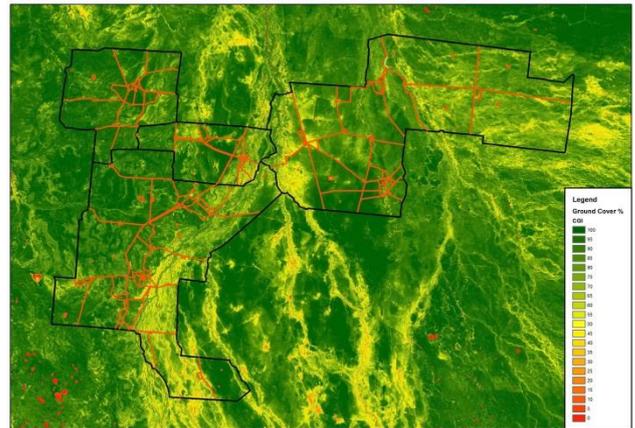
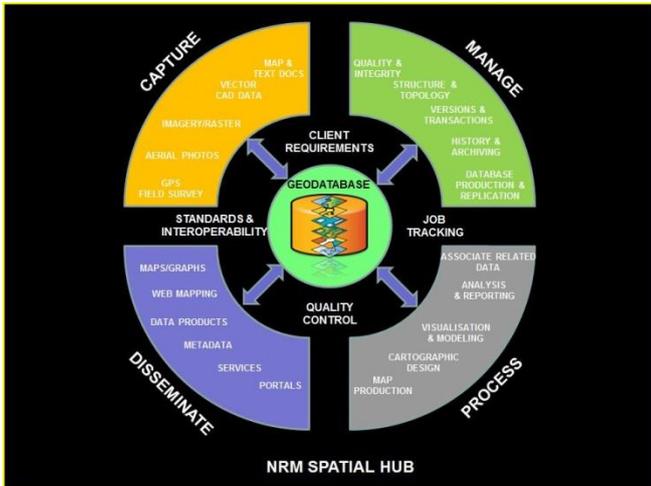
A small team of technical specialists will be dedicated to supporting the development, maintenance and effective use of the on-line mapping system. The team will comprise of specialists in project management and coordination; standards and applications development; remote sensing (RS); Geographic Information Systems (GIS); data procurement and management, and training. The team will provide overarching support for delivery of services through the Regional NRM bodies across the Rangelands. The team will play a critical role in coordinating projects and initiatives with State and Commonwealth Governments; project planning and implementation, and development of data agreements to ensure that every landholder, manager and NRM regional body



# The NRM Spatial Hub - Decision making and monitoring

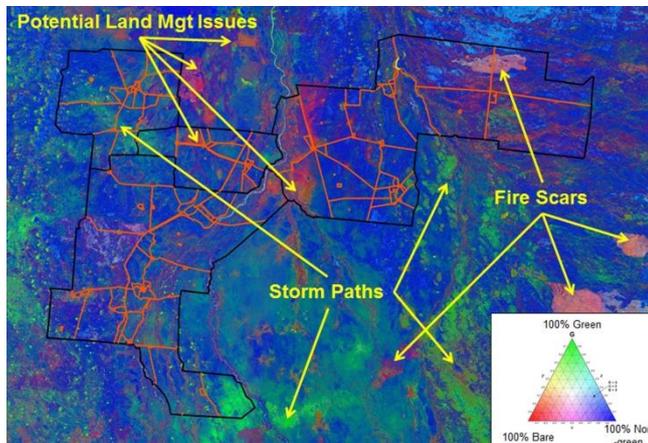
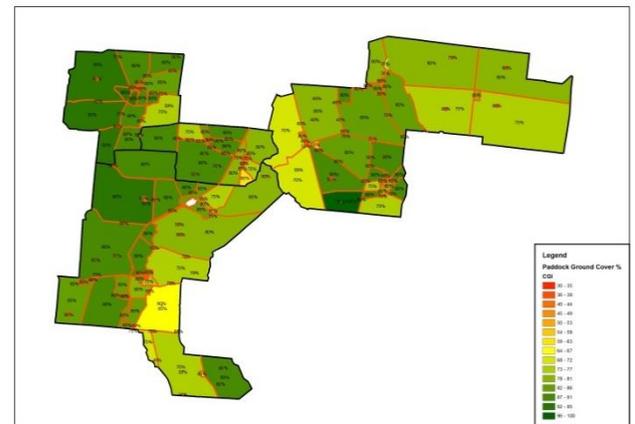
has consistent and timely access to the information required to make better decisions.

ability to monitor capacity for production and trends in landscape health and condition, and to quantify return on investment. This will be achieved by connecting and integrating landholders with Australia's national investments in computing and network infrastructure, research and environmental monitoring programs using remote sensing and related capabilities.



## Paddock to national scale productivity and environmental monitoring

Monitoring of pasture biomass, ground cover and biodiversity indicators will be implemented through partnerships with Australian and State Government agencies and research organisations coordinated by the "Hub".



Land Managers will be provided with simple tools for analysing the condition of their land over months, years and decades. These maps show the ground cover estimated from satellite data in May 2009 after the QLD Gulf floods, and the average ground cover for each paddock.

Land managers will have direct access to time-series satellite remote sensing products from government and science agencies to monitor ground cover and land condition and damage from storms, floods and fire.

It is expected that this will also significantly enhance environmental and carbon accounting efforts. Our aim is to provide the tools and support for farm-scale planning and monitoring by landholders and managers. This forms the foundation for improved decision-making and will contribute to Australia's

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