

WINNER

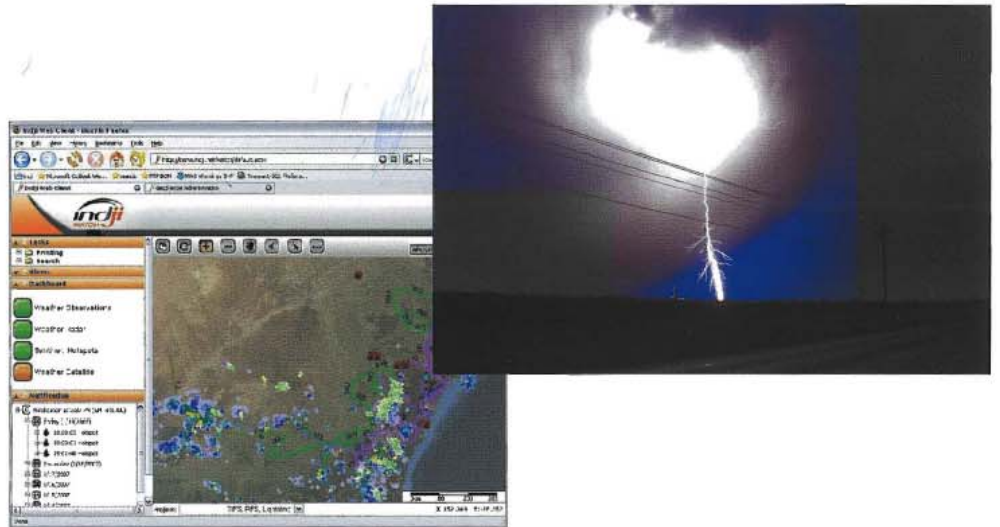
This Award recognises an individual/s or a corporation's contribution to spatial science research and/or technical innovation. It may be conferred for a specific project or for an innovative solution to a technical problem.

Indji Watch: a spatial hazard monitoring system

iintegrate Systems (NGIS), WA

Indji Watch is the world's first web-based hazard monitoring system that uses spatial information to deliver real-time analysis of risks and hazards against the physical location of fixed or mobile assets, and initiates intelligent actions and warnings when assets are under threat.

The application was developed using a sophisticated mapping analysis system that brings together multiple data streams into a single, web-enabled interface that is easily deployable and cost efficient to operate. Its framework enables volumes of raw data to be visualised seamlessly in real-time, and its ability to program actions based on pre-defined business rules means that Indji Watch can automatically send targeted notifications using a range of communication methods, as well as intelligently triggering actions like sounding sirens or activating sprinklers to help mitigate against the risk of damage to critical assets or infrastructure. Since launching, Indji Watch has successfully helped the utility industry in reducing this risk, while increasing efficiencies with the way hazards are monitored and managed.



Judges Comments

Indji Watch is a very unique application of technology and superbly constructed. It addresses a variety of hazards over large geographic areas in real-time which was an incredibly difficult problem that the project solved.

It is clear that a substantial investment in research and development has gone into this project. Every available technology has been accessed and then applied into a mobile/real-time solution – that is emerging technology; breaking new ground in every spatial way. Avoiding or limiting the effect of hazards will have a huge impact on industry and the community.

Software as a service is an emerging field that requires rigour in design and execution of the software and management systems. There is significant benefit to be gained through protection of critical infrastructure, and mitigation of risk of economic loss from loss of service caused by adverse events.