

Leveraging human-machine teaming to identify and protect high value cultural assets in Far North Queensland.

World-heritage Aboriginal rock art dating back thousands of years is one step closer to being re-discovered for the first time thanks to drone, artificial intelligence (AI) and mapping technology.

KJR, Trusted Autonomous Systems and several leading technology QLD based companies have joined forces to deliver this project on Quinkan Country in Far north Queensland.



In partnership with Western Yalanji Aboriginal Corporation (WYAC), the team will navigate rock art sites inaccessible by foot with the help from local Indigenous rangers and drone technology to document re-discovered rock art for cultural preservation.

*Western Yalanji elders will determine who accesses particular sites for the delivery of this project.

The goal is to develop a digital platform for documenting rock art utilising various technologies:

- Artificial Intelligence
- Hover mapping
- Drone imagery & flight mapping
- AI vision & geospatial modelling
- Data management and model training



With aim of achieving the project objectives:

- **Collection and Storage** of digital assets with High Cultural value.
- **Training** of Indigenous rangers to up-skill members of the local community in tech industries that are highly sought after in a commercial market.
- **Automation** of site discovery and capture process.
- **Sovereign Capability**

Aside from cultural preservation this project potentiates economic growth for the region and West Yalanji people.

Future application into virtual and eco-tourism as well as agricultural management increase local employability and contributes to the scaling of technology and economic growth in regional and remote areas of Australia.

