



Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Australia 6-10 April

# Community Led Cultural Mapping

Patrick Burke



We have the permission of the communities involved to present this information to the public in this forum - Annie Milgin, Knowledge Holder and Elder of Nyikina Mangala



PLATINUM SPONSORS



# EVERICK HERITAGE'S COMMUNITY LED CULTURAL MAPPING PROGRAM



Empowering Indigenous communities to lead cultural mapping efforts



Leverages modern technology to assist cultural preservation



Utilizes GIS and digital tools for effective and affective data collection and visualization

# TECHNOLOGICAL TOOLS IN THE CULTURAL MAPPING PROGRAM

## iPads

Used for efficient data collection and review.

## ArcGIS Online

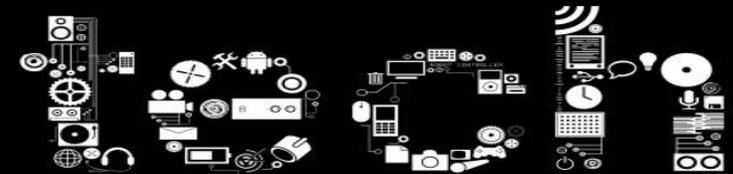
Provides robust data management and visualization capabilities.

## ESRI Field Maps

Facilitates accurate field data recording.

## Modern Approach

Combines these technologies to enhance traditional cultural mapping practices.



# COMMUNITY - LED FRAMEWORK

- The programme is shaped and controlled by Indigenous communities.
- Empowers Indigenous communities to define and achieve their own culturally relevant goals.
- Communities independently identify and prioritise goals.
- Indigenous communities retain authority over access to all data and information.
- Indigenous communities lead the cultural mapping projects, from methodology to dissemination.



Photo: P. Burke 2022

# INDIGENOUS COMMUNITY INVOLVEMENT

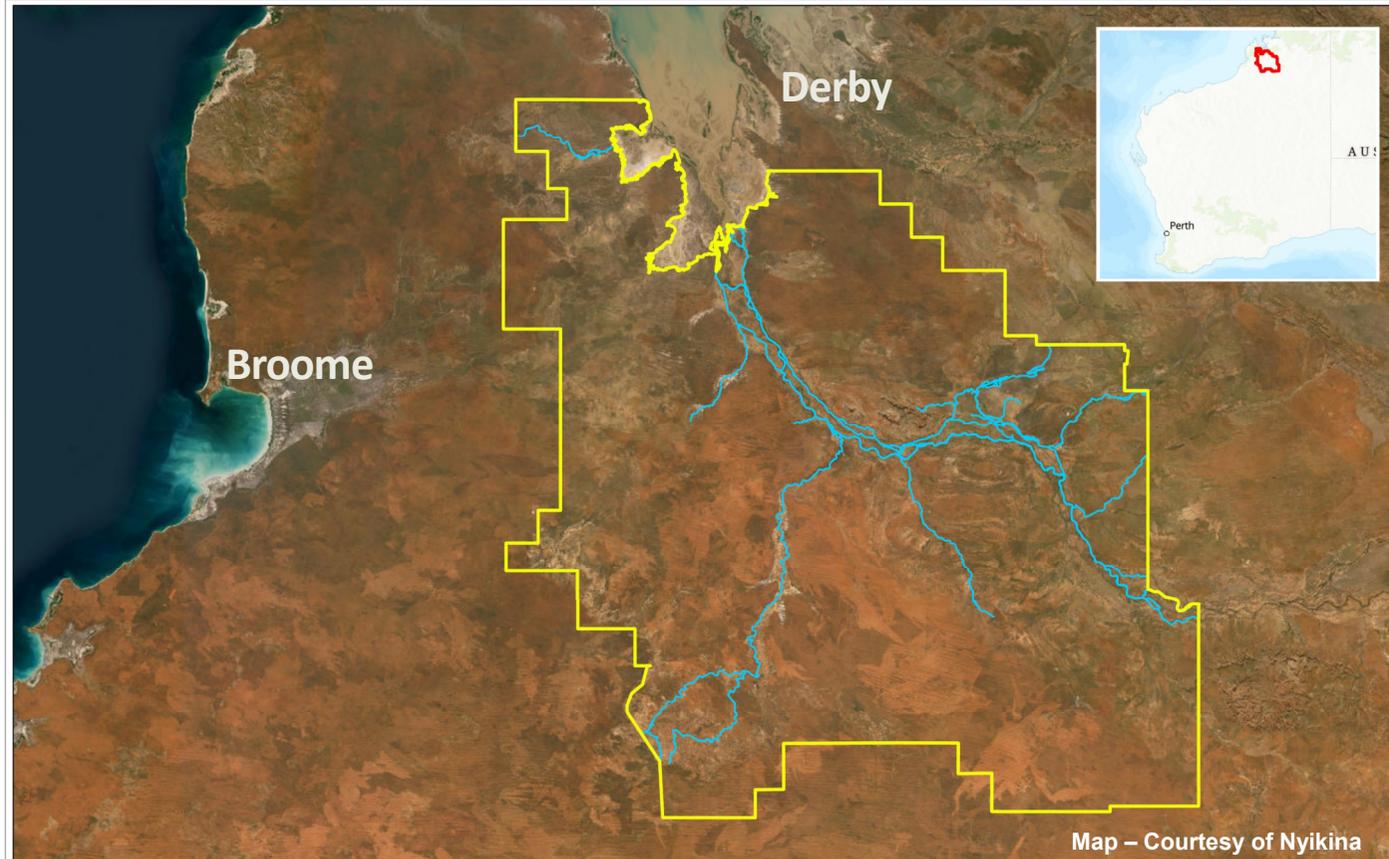
The programme is a supportive tool, complementing Indigenous cultural practices,

Community members contribute directly to the cultural data recording process.

Community contributions define the way in which cultural heritage is preserved for future generations.

Community leadership ensures control and management in culturally safe ways

- Area 30,000 sq km
- Half the size of Tasmania
- Same size as Belgium
- 48 Countries smaller in area



**EVERICK GEOSPATIAL** 

**Nykina Mangala Project Area**

Prepared by: P.Burke  
Date: 21 October 2024  
Locality: Kimberley, WA  
Scale at A3: 1:1,000,000  
Datum: WGS 1984 Web Mercator Auxiliary Sphere

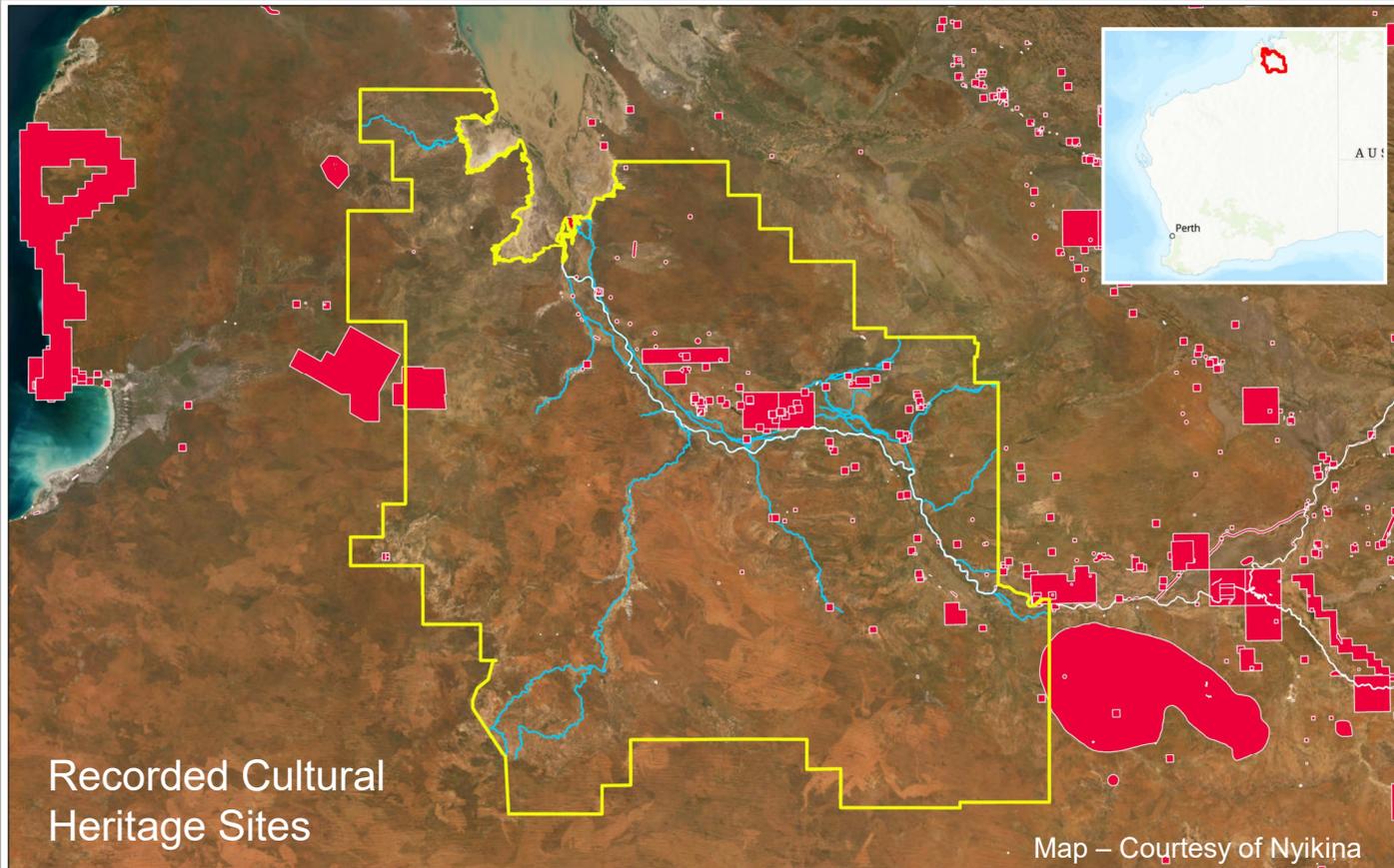
0 8 16 24 32 40 Kilometers

Legend

-  Watercourses
-  Nykina Mangala People

Disclaimer: This map was generated by Everick through spatial data provided by the Client, current as of the date of this map. Everick gives no warranty in relation to the accuracy and suitability of the data and accept no liability for losses, damages and/or costs, in relation to any use or reliance upon the data.

Download Path: C:\Users\pburke\Desktop\Nykina\_Mangala\_Web\_Map\_Burke\_20Presentation\Map\Presentation\_Map.aprx



**EVERICK GEOSPATIAL** 

**Nyikina Mangala Project Area**

Prepared by: P.Burke  
Date: 21 October 2024  
Locality: Kimberley WA  
Scale: A3: 1:1,000,000  
Datum: WGS 1984 Web Mercator Auxiliary Sphere

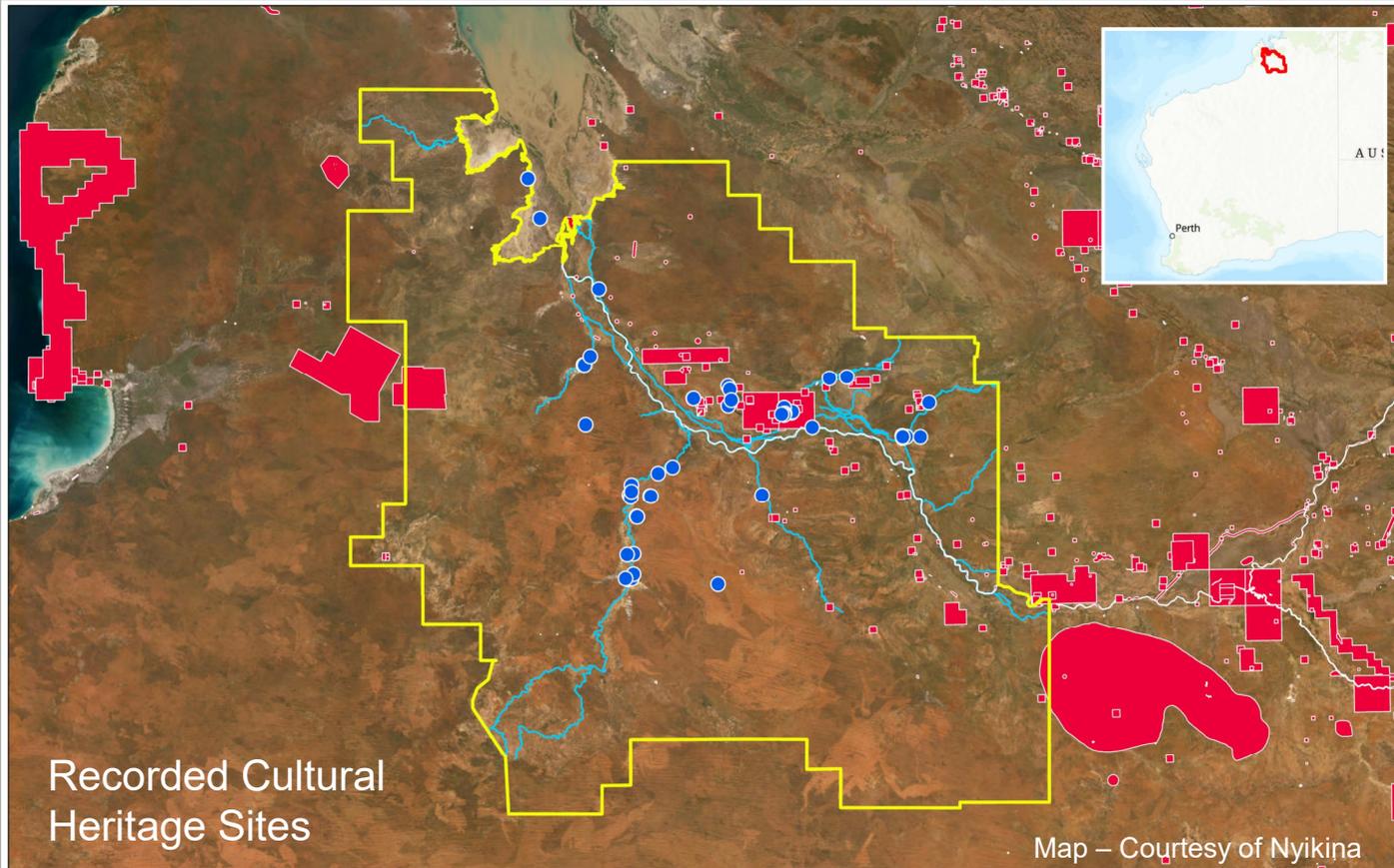
**Legend**

-  Aboriginal Heritage Places
-  Watercourses
-  Nyikina Mangala People

0 8 16 24 32 40 Kilometers

Document Path: C:\Users\p.burke\Desktop\Nyikina\_Mangala\_Web\_Map\_Refresh\_D\Presentation\Map\Presentation\_Map.aprx





Recorded Cultural Heritage Sites

Map – Courtesy of Nyikina



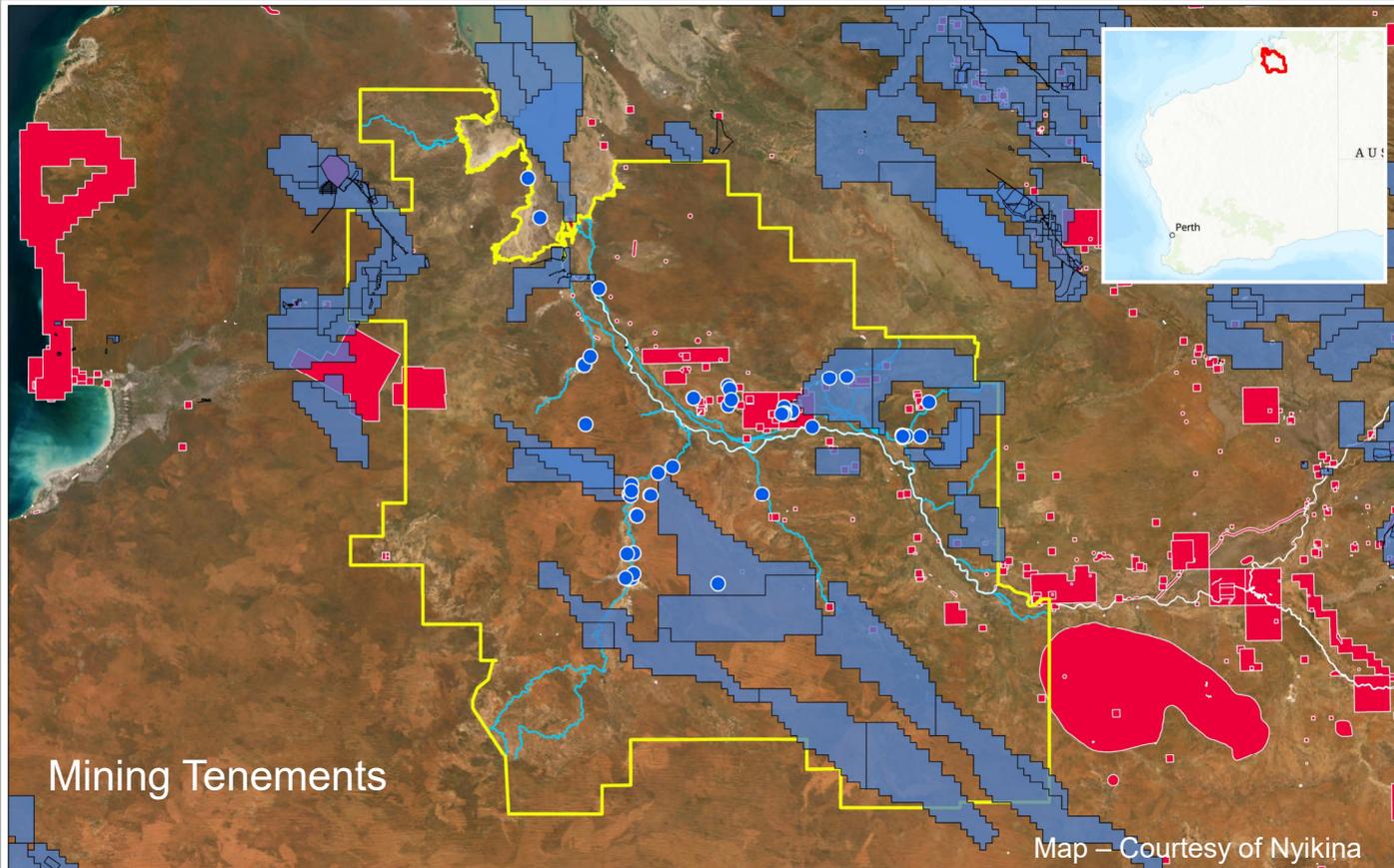
**Nyikina Mangala Project Area**  
Prepared by: P.Burke  
Date: 21 October 2024  
Locality: Kimberley WA  
Scale: A3: 1:1,200,000  
Datum: WGS 1984 Web Mercator Auxiliary Sphere

- Legend
-  Sites Recorded Oct 2023
  -  Aboriginal Heritage Places
  -  Watercourses
  -  Nyikina Mangala People



Document Path: C:\Users\p.burke\Desktop\Nyikina\_Mangala\_Web\_Map\_Refresh\_D\Presentation\Map\Presentation\_Map.aprx





Mining Tenements

Map – Courtesy of Nyikina

**EVERICK GEOSPATIAL** 

**Nyikina Mangala Project Area**

Prepared by: P.Burke  
Date: 21 October 2024  
Locality: Kimberley WA  
Scale: A3: 1:1,200,000  
Datum: WGS 1984 Web Mercator Auxiliary Sphere

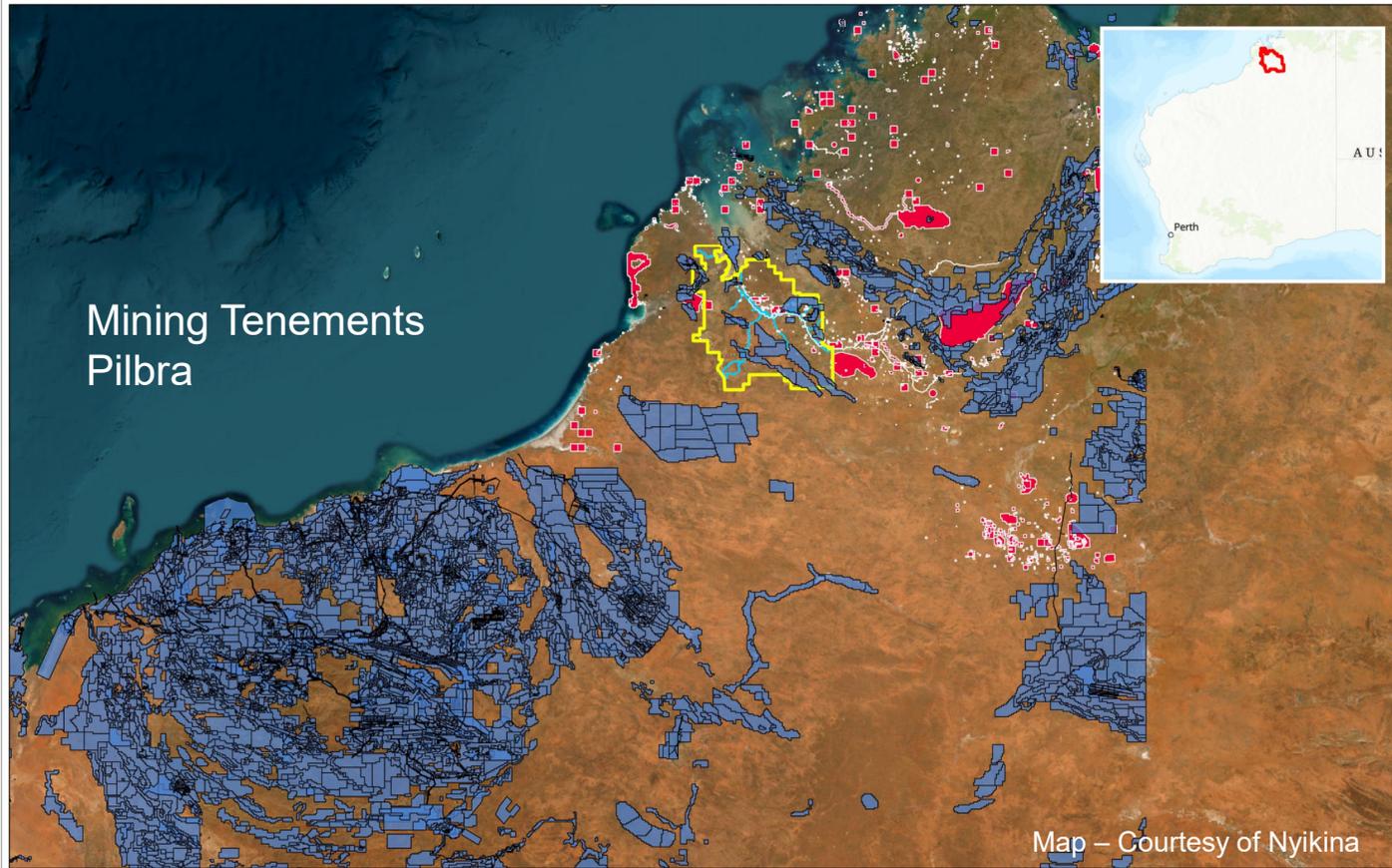
**Legend**

-  Sites Recorded Oct 2023
-  Aboriginal Heritage Places
-  Nyikina Mangala People
-  Mining Tenement
-  Watercourses

0 8 16 24 32 40 Kilometers

Document Path: C:\Users\p.burke\Desktop\Nyikina\_Mangala\_Web\_Map\_Refresh\_D\Presentation\Map\Presentation\_Map.aprx





Mining Tenements  
Pilbra

Map – Courtesy of Nyikina

**EVERICK GEOSPATIAL** 

**Nyikina Mangala Project Area**

Prepared by: P.Burke  
Date: 21 October 2024  
Locality: Kimberley WA  
Scale at A3: 1:5,000,000  
Datum: WGS 1984 Web Mercator Auxiliary Sphere

Document Path: C:\Users\p.burke\Desktop\Nyikina\_Mangala\_Web\_Map\_Burke\_D\Presentation\_Map\Presentation\_Map.aprx

**Legend**

-  Mining Tenement
-  Aboriginal Heritage Places
-  Watercourses
-  Nyikina Mangala People

0 40 80 120 160 200 Kilometers





TRAINED 30  
INDIVIDUALS FROM  
NYIKINA GROUP WHO  
WENT ON TO CONDUCT  
CULTURAL MAPPING  
AFTER TRAINING  
FINISHED



Photo: P. Burke 2024 (photo taken with permission from A Milgin and reproduced here with community permissions)



Photo: P. Burke 2024 (photo taken with permission from A Milgin and reproduced here with community permissions)

**Cultural Mapping  
transcends the  
documentation of a place.  
It captures the stories,  
histories,  
and deep significance that  
breathes life into the  
landscape.**



Photo: P. Burke 2024



**WORKING  
WEEK 2025**

AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE

Collaboration, Innovation and Resilience:  
Championing a Digital Generation



Brisbane, Australia 6-10 April



**ANNIE  
MILGIN**

NYIKINA MANGALA ELDER

This is a story



ORGANISED BY **FIG** **Geospatial**  
Council of Australia

PLATINUM SPONSORS





**WORKING  
WEEK 2025**

AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE

Collaboration, Innovation and Resilience:  
Championing a Digital Generation



Brisbane, Australia 6–10 April



What exists in the landscape  
holds deep meaning for the  
involved communities.

Stories Knowledge Custodianship Rituals  
 Memory Legacy Wisdom Continuity  
 Relationships Spirituality Culture History  
 Land Community Responsibility  
 Protection Values

ORGANISED BY



PLATINUM SPONSORS



# COMMUNITY LEADERSHIP IN CULTURAL MAPPING

Community members lead the project to ensure the cultural mapping records reflect the community's values, priorities, and needs.

Leadership ensures that cultural stories and practices are preserved accurately.

The program offers a novel way to record and access the cultural story and oral traditions.

Ensures that cultural practices are documented with precision and respect.

Recording stories is vital for preserving language and passing on culture to future generations. However, there is sometimes hesitation to share these stories with those outside the community.



Photo: P. Burke 2024 (photo taken with permission from A Milgin and reproduced here with community permissions)

Everick Heritage, in collaboration with ESRI  
Australia, is supporting a School Cultural  
Mapping Program.

The program is being run by the ABC  
Foundation in a remote area of Western  
Australia.

SITUATED IN THE  
NORTHWEST, MOUNT  
TOM PRICE IS A REMOTE  
MINING SITE WHERE  
LOCAL PRIMARY SCHOOL  
STUDENTS TRAVEL UP TO  
50 KILOMETERS TO  
REACH SCHOOL.



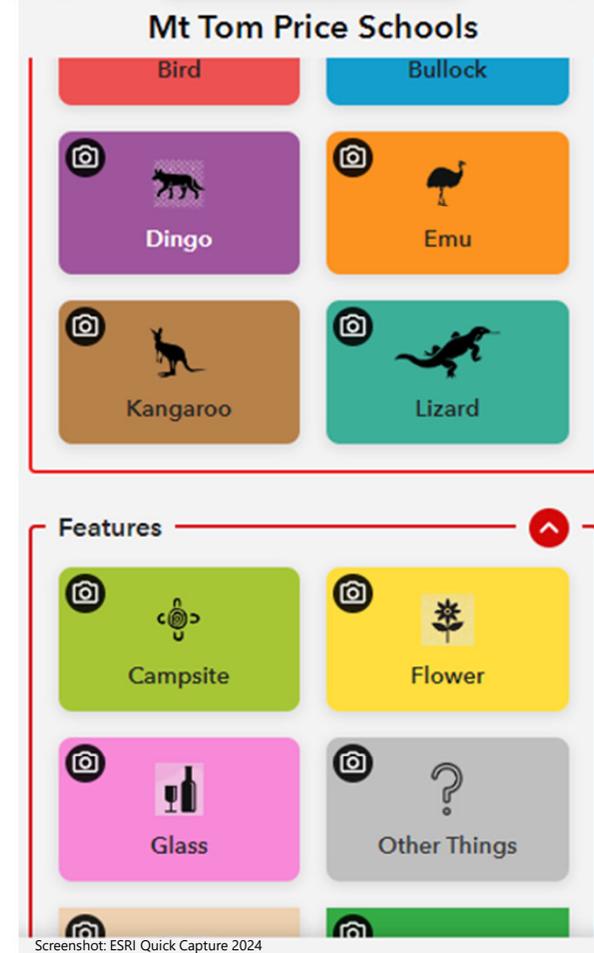
Photo: P. Burke 2024



Photo: N. Armstrong 2024

RECENTLY,  
INDIGENOUS  
STUDENTS HAVE  
BEEN INTRODUCED  
TO THE IDEA OF  
CULTURAL MAPPING.

ESRI's QUICK CAPTURE SOFTWARE IS BEING UTILIZED TO HELP STUDENTS, AGED 8 TO 10, UNDERSTAND THE IMPORTANCE AND VALUE OF MAPPING CULTURALLY SIGNIFICANT SITES.





**WORKING WEEK 2025**

AND

# Locate25

THE NATIONAL GEOSPATIAL CONFERENCE

Collaboration, Innovation and Resilience:  
Championing a Digital Generation



Brisbane, Australia 6-10 April

**Quick Capture:**

Table Edit Get directions Zoom to

Altitude	714.00
Capture Item	Kangaroo
Compass reading (°)	
Direction of travel (°)	165.10
Latitude	-22.70
Longitude	117.79
Number of Satellites	11
Speed (km/h)	
User	



Last edited by TPSchools on 20/08/2024, 18:56.

Screenshot: ESRI AGOL 2024



ORGANISED BY



PLATINUM SPONSORS





THE PROGRAM HAS  
INCREASED INTEREST IN  
SCHOOL ATTENDANCE AND  
HEIGHTENED AWARENESS  
AMONG COMMUNITY  
LEADERS AND ADULTS  
REGARDING THE  
IMPORTANCE OF CULTURAL  
MAPPING.



**WORKING  
WEEK 2025**

AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE

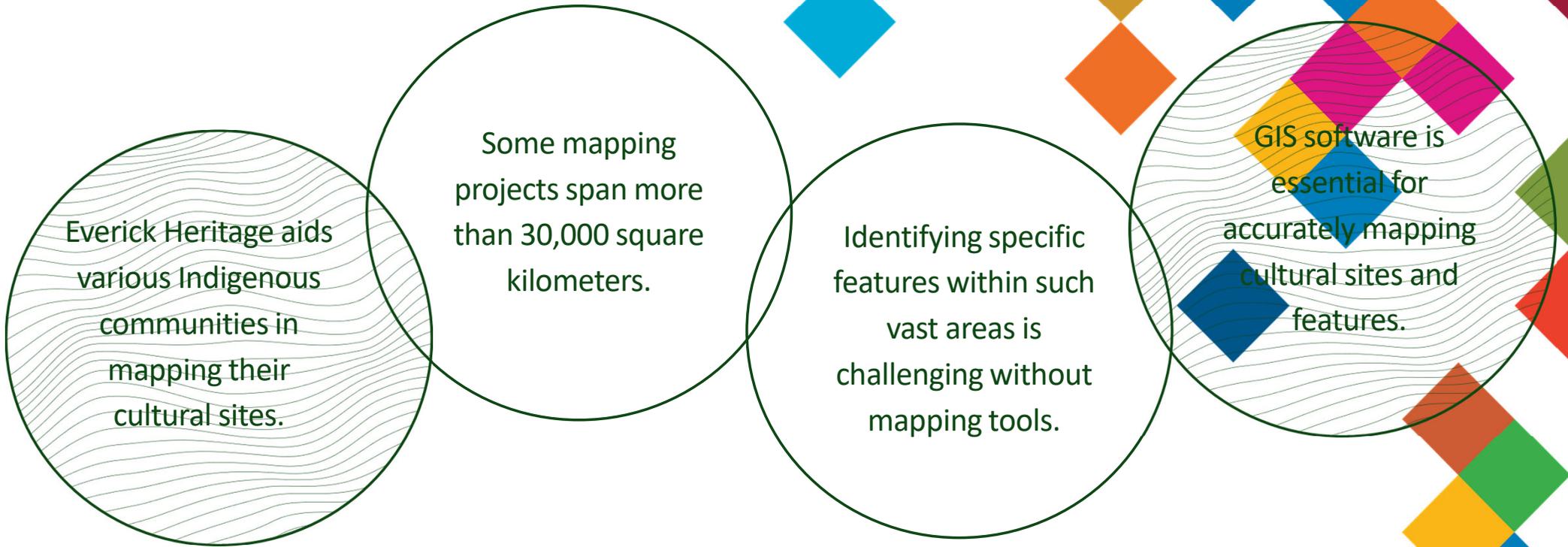
Collaboration, Innovation and Resilience:  
Championing a Digital Generation



**Geospatial**  
Council of Australia

Brisbane, Australia 6-10 April

# SUPPORT TO INDIGENOUS COMMUNITIES ACROSS AUSTRALIA



# IMPORTANCE OF DATA COLLECTION AND VISUALIZATION IN CULTURAL MAPPING

- Data collection must be led by or in partnership with Aboriginal communities.
- Data visualisation should incorporate Indigenous perspectives.
- Maps and tools should be accessible to Aboriginal communities.
- Support for data management and visualisation must be based in long-term partnerships.





EVERICK'S CULTURAL  
MAPPING SYSTEM  
"CONNECT"

EVERICK HERITAGE

# The most relevant SDGs related to the presentation and theme of this session

1st relevant SDG

**8** DECENT WORK AND ECONOMIC GROWTH

2nd relevant SDG

**15** LIFE ON LAND

3rd relevant SDG

**16** PEACE, JUSTICE AND STRONG INSTITUTIONS

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals



**WORKING  
WEEK 2025**

AND

**Locate25**  
THE NATIONAL GEOSPATIAL CONFERENCE



Collaboration, Innovation and Resilience:  
Championing a Digital Generation

**FIG**

**Geospatial**  
Council of Australia

Brisbane, Australia 6-10 April

*Thank you.*

ORGANISED BY



PLATINUM SPONSORS





**WORKING WEEK 2025**

AND

**Locate25** | **G**  
THE NATIONAL GEOSPATIAL CONFERENCE

Collaboration, Innovation and Resilience:  
Championing a Digital Generation



Brisbane, Australia 6–10 April

**STEP 1: SELECT HERE THE THREE MOST RELEVANT SDGs**  
**STEP 2: COPY THE SDG INTO PREVIOUS SLIDE**

<b>1</b> NO POVERTY 	<b>2</b> ZERO HUNGER 	<b>3</b> GOOD HEALTH AND WELL-BEING 	<b>4</b> QUALITY EDUCATION 	<b>5</b> GENDER EQUALITY 	<b>6</b> CLEAN WATER AND SANITATION 	<b>7</b> AFFORDABLE AND CLEAN ENERGY 	<b>8</b> DECENT WORK AND ECONOMIC GROWTH 	<b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE 
<b>10</b> REDUCED INEQUALITIES 	<b>11</b> SUSTAINABLE CITIES AND COMMUNITIES 	<b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION 	<b>13</b> CLIMATE ACTION 	<b>14</b> LIFE BELOW WATER 	<b>15</b> LIFE ON LAND 	<b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS 	<b>17</b> PARTNERSHIPS FOR THE GOALS 	

ORGANISED BY



PLATINUM SPONSORS

