



# Cultural Memory & Digital Mediation: Three contrasting projects in Armenia, Australia and South Africa

Digital Dialogues

Maryland Institute for Technology in the Humanities

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## Julfa Cemetery Digital Repatriation Project

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KHACHKAR OF THE MONTH

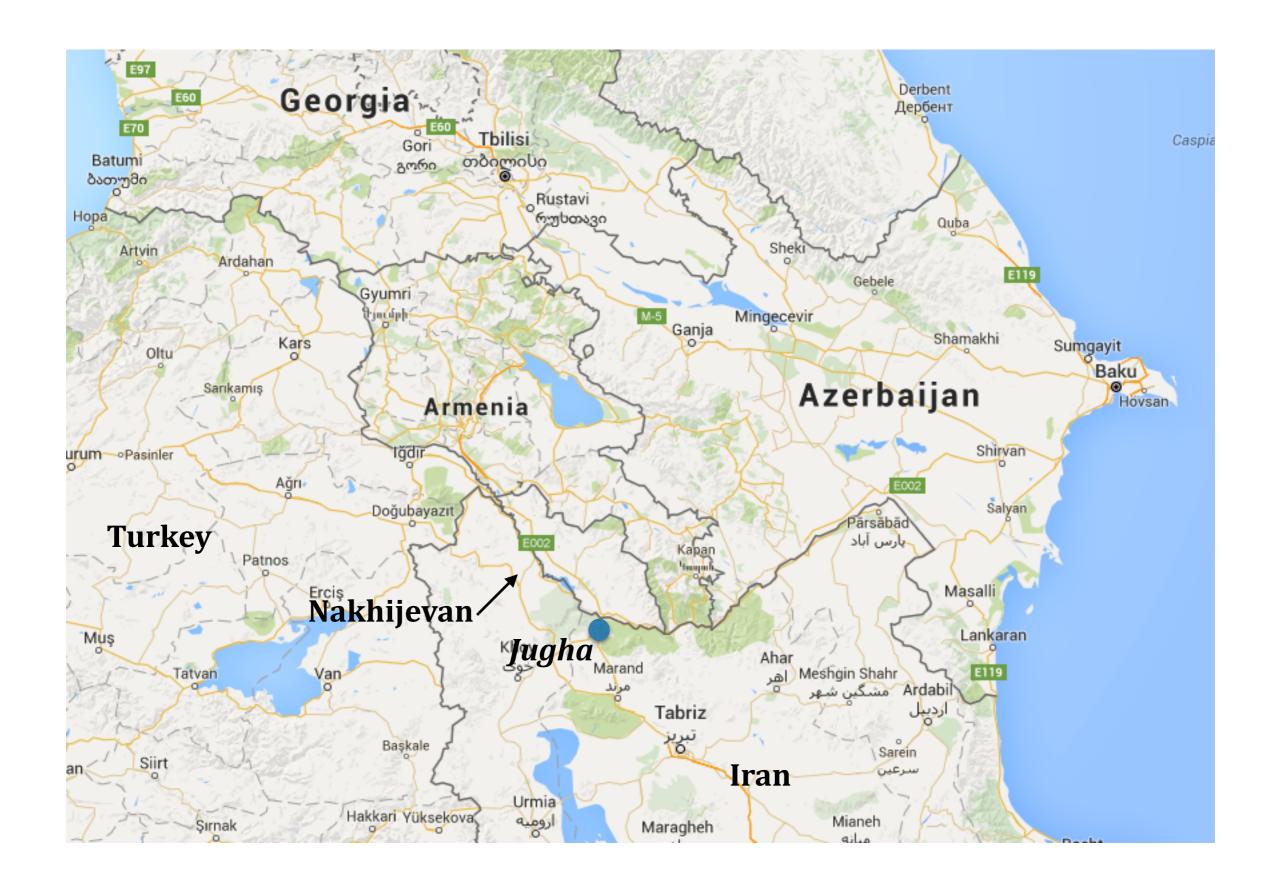
GALLERY

NEWS

THE ARGAM AYVAZYAN DIGITAL ARCHIVE







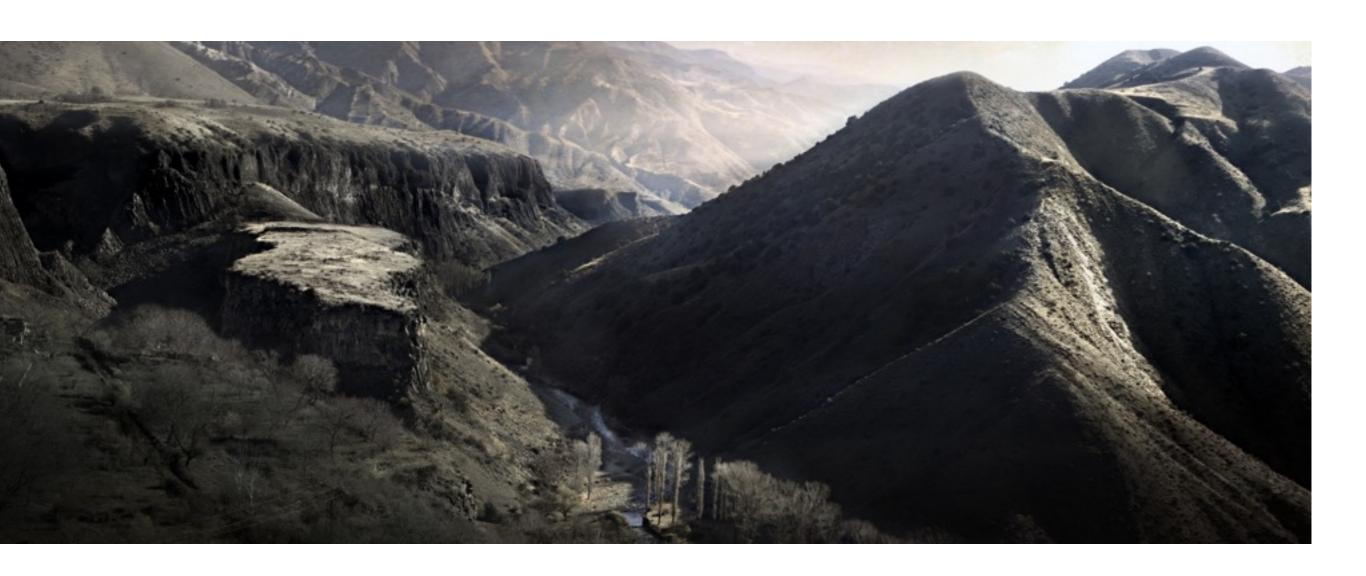


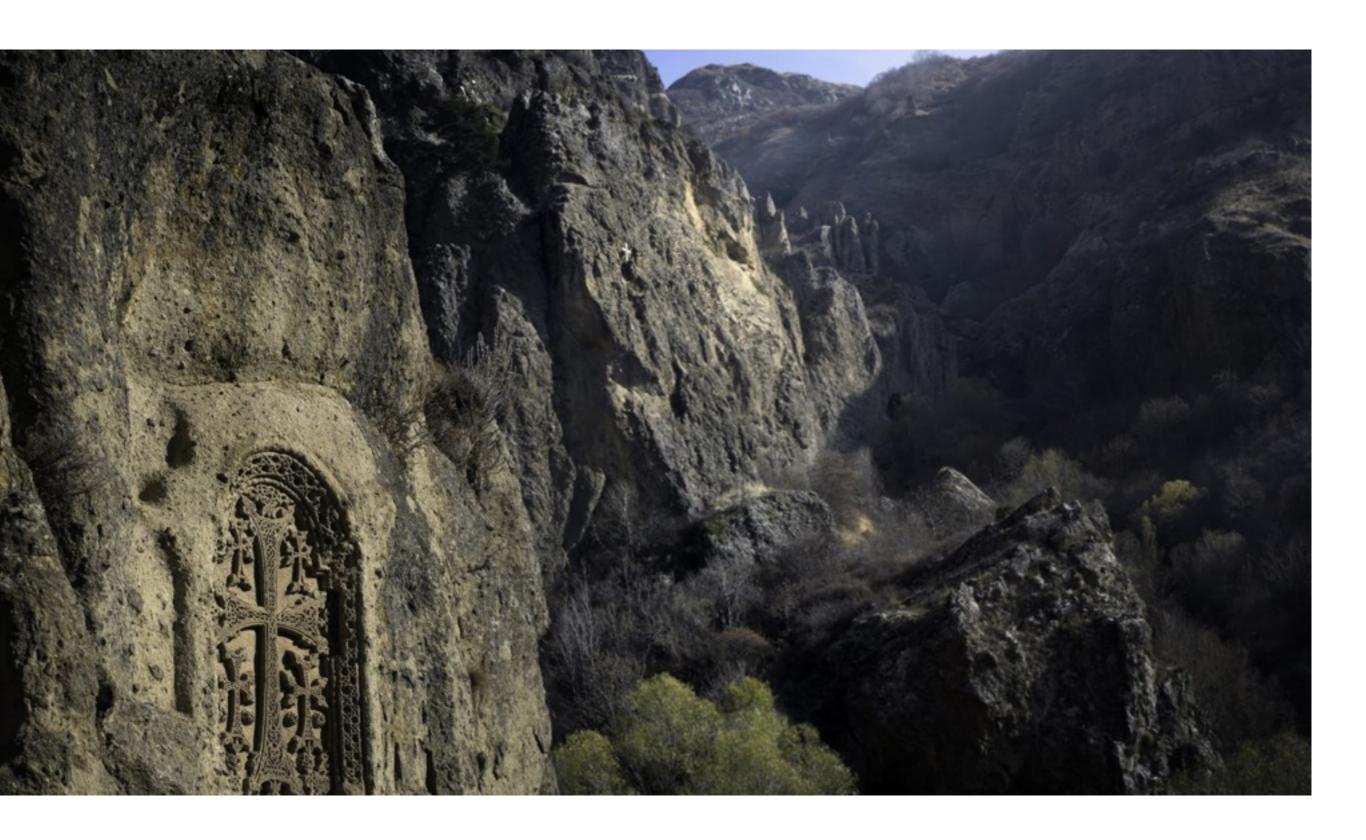


# The Ancient Cemetery at Julfa (Jugha)

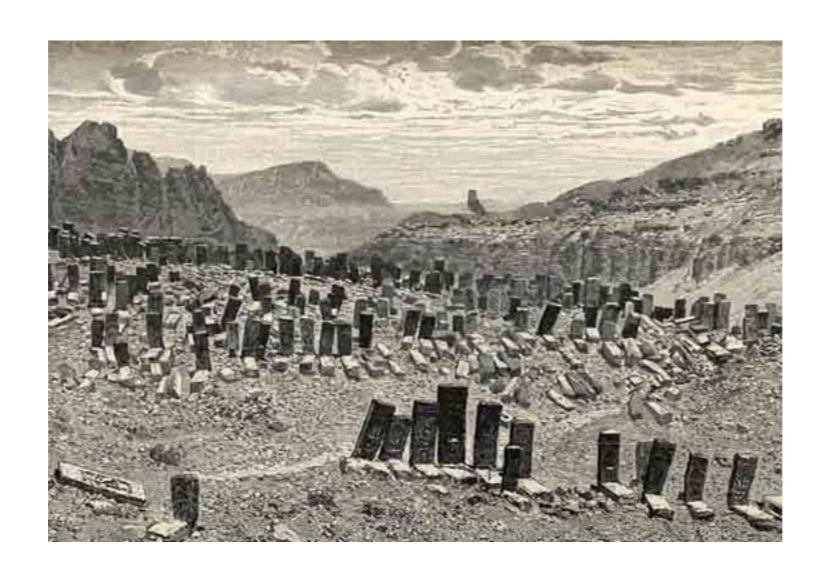
- The most extensive and significant Christian cemetery established by the first nation to adopt Christianity (early 4th Century)
- Tombstones from 4th Century, but also pre-Christian pagan stones, and built on site of much earlier burial ground, 3C BC or earlier...
- Since 1920s in Azerbaijan, on banks of Arax River, border with Iran
- Especially important funerary monuments from 16th & 17th
   Centuries, but cemetery continued in use to end 19C / early 20C
- Over 10,000 tombstones at the height of its importance
- Neglected by Azerbaijan in 20C, but then destroyed, with final destruction in 2006 (filmed by an Armenian priest from Iran)













Armenian cemetery of Djulfa khatchkars in ruins. Photo: Research on Armenian Architecture, 1998



Azerbaijani soldiers broke the remaining cemetery stones (*dabanakars*) with sledgehammers and axes.

Photo: Armenian Apostolic Church Diocesan Council, Tabriz, Iran – 12/2005

Destruction of the Armenian Cemetery in Djulfa, Nakhichevan (Azerbaijan)

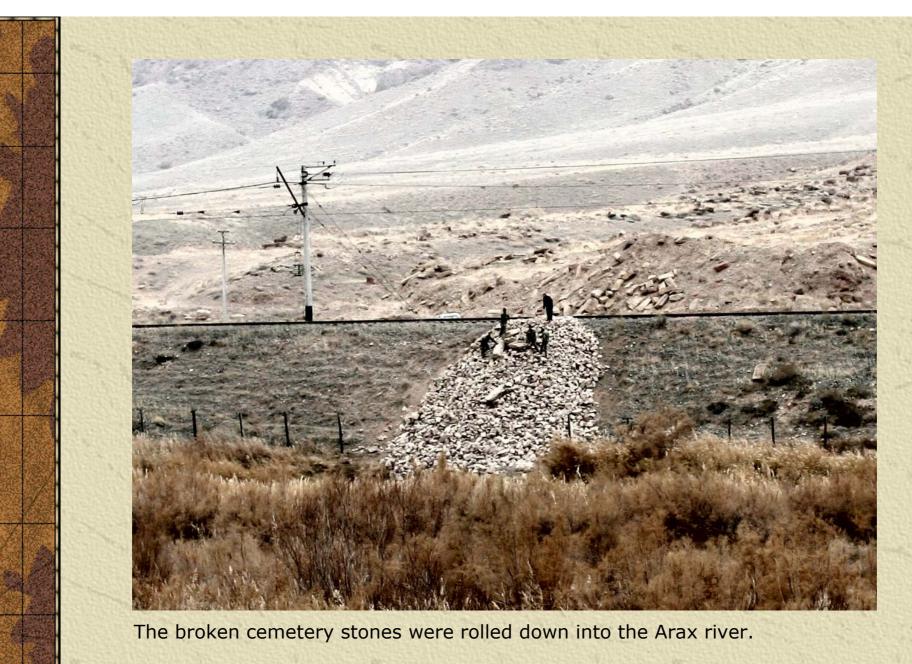
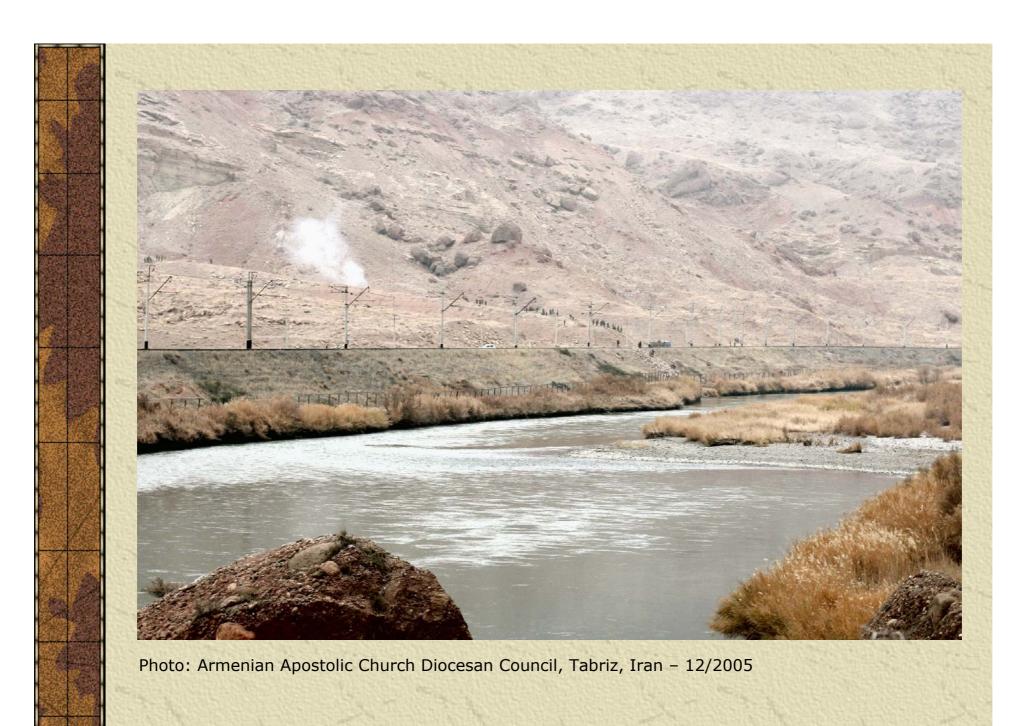


Photo Credit: Armenian Apostolic Church Diocesan Council, Tabriz, Iran - 12/2005

Destruction of the Armenian Cemetery in Djulfa, Nakhichevan (Azerbaijan)







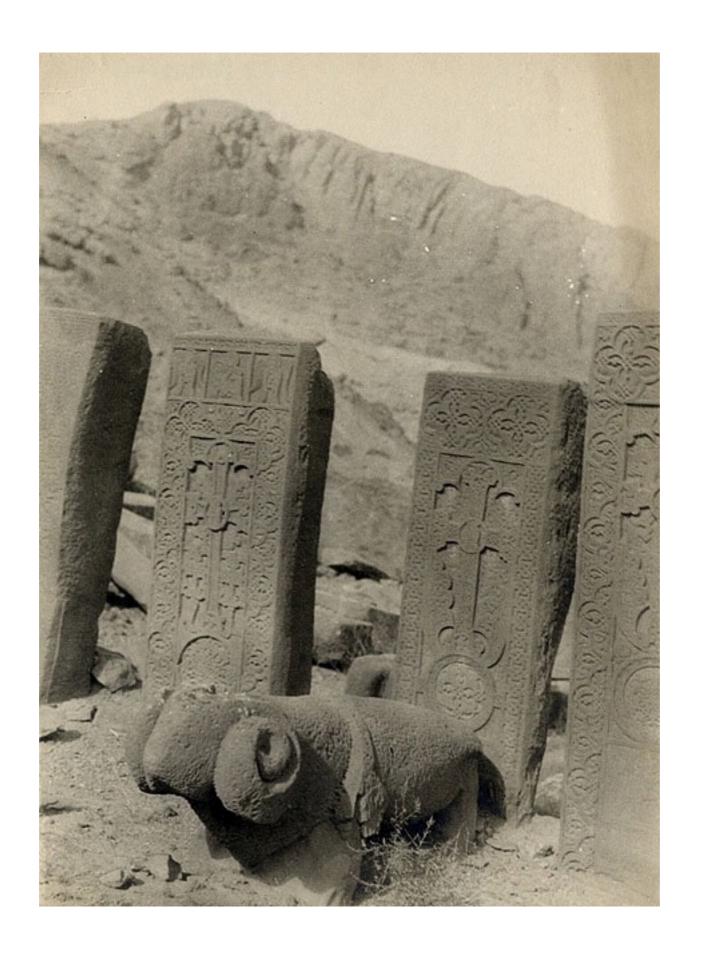






### **Julfa Cemetery - Cultural Significance**

- Julfa represents cultural heritage of huge importance to Armenians
  - in part because it linked them to their earliest Christian roots
  - in part because its destruction is seen by Armenians as symbolic of international indifference to the Armenian Genocide of 1915 and to continuing Armenian cultural genocide
- The Julfa project has strong support from many Armenian communities:
  - the Armenian church and civil authorities in Armenia, and it seems - all Armenians living there;
  - the Armenian diaspora in Sydney (40,000)
  - the Armenian diasporas around the world (largest in USA)
- Community engagement is crucial to the project









#### **Khachkars**

- 'Khachkars' are intricately carved cross-stones unique to Armenian culture
- Each was carved to commemorate an individual (or sometimes an event), as a prayer in stone interceding with the divine
- So each khachkar is unique, relating to a specific person or event, but the designs incorporate recurring motifs
- In Armenian theology a khachkar is a 'gate' between earth and heaven, so are found in contexts other than cemeteries, e.g. in towns and villages - useful if no church is nearby
- Created as funerary monuments only for 'important' people; 'ordinary' people had tombstones
- Khachkars face west with head of buried person towards the East; so s/he and mourners are facing towards the Second Coming of Christ

The comice depicts the last judgement. Christ, on a throne, is surrounded by angels, animals and the four evangelists (symbolised by the lion, ox, eagle and man)

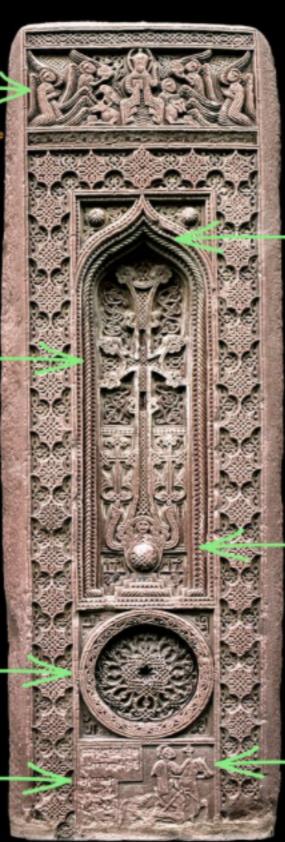
SACRED THIRD the tripartyte structure
emphasises the role of the
cross as an intermediary
between God and human
beings. The cornice is
reserved for images of
sacred beings: Christ,
angels and often the four
evangelists.

The Armenian Apostolic cross rarely, if ever, depicts a human form on it.
Rather, the cross is treated as a symbol of the all-bearing tree. Some khachkars show the cross laden with fruit (such as grapes or pomegranates).
The fruit can be understood as a metaphor for Christ's blood, which ferments and becomes wine as it falls to the earth. The arms of the cross are bifurcated to symbolise its perpetual reproduction.

The Resette, or solar disc, symbolises Earth and the cosmos. Here it also represents Golgotha. In Eastern Christianity it is said that Christ was crucified on the very site where Adam, the first man, was buried.

The inscription on the base of a khachkar speaks about the deceased and is intended as a "living prayer" to be read out on judgement day.

> PROFANE THIRD this part of the khachkar is reserved for images and inscriptions describing the deceased. It is the Human realm.



All khachkars face west so they are backlit in the morning and frontiit in the afternoon. Because Christ is supposed to return from the East, the deceased is buried with feet toward the khachkar. This way the buried person and the mourners, face toward the East to see the khachkar and also the coming of Christ.

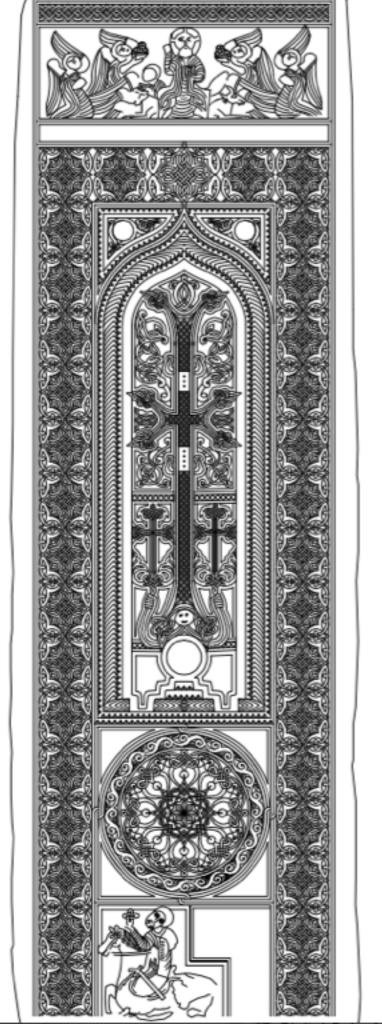
Julfa khachkars are often over 2 meters in height and are generally narrower than other khachkars. They are often characterised by the red colour of their stone and the multitiered pointed arch above the cross. This arch, which reveals the influence of Islamic art and monuments in the region, is almost unique to Julfa's khachkars.

NEUTRAL THIRD - here the cross is a quiet focus point. Fine lines create an impression of upward growth. This reinforces the idea of the cross as an informediary, a symbol connecting human beings with God.

In this khachkar we see the skull of Adam under the cross. He reaches up out of the earth to grasp the arms of Christ - or, in this khachkar, to raise his own crosses. Through this metaphor, Christ becomes the new Adam, a perpetual circle of life, death and transformation.

Sometimes the face of the deceased is shown here instead of Adam's skull. In this case the face and arms are fleshed out rather than consisting of bare bones (as in the case of Adam).

 The loweest third of the khachkar normally depicts the deceased and his or her positive attributes. The horse often symbolises bravery.















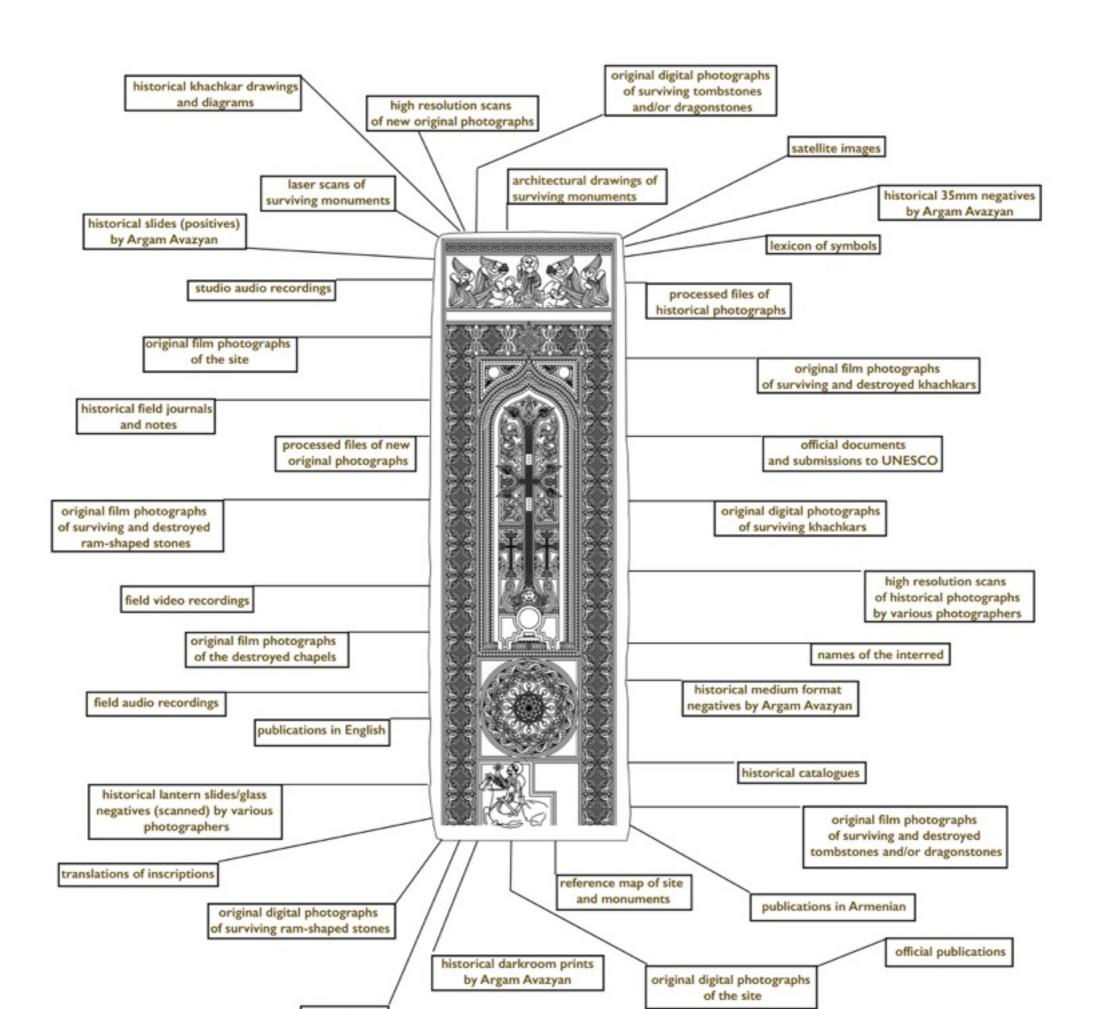


# The Julfa Cemetery Digital Repatriation Project

- Purpose: to recreate virtually as faithfully as possible the lost heritage
- Resources:
  - Lantern slide photographs by Aram Vruyr and Jurgis Baltrušaitis
  - Argam Ayvazyan Archive: 2,000 photographs over 25 years
  - Other old photographs; new digital photographs; documents
  - Satellite images from AAAS project 2013-14

#### • Outcomes:

- Two permanent 3D installations in Yerevan & Sydney; touring version
- Virtual reality model available online
- Substantial digital & physical archive in Sydney
- Publications, conferences, workshops



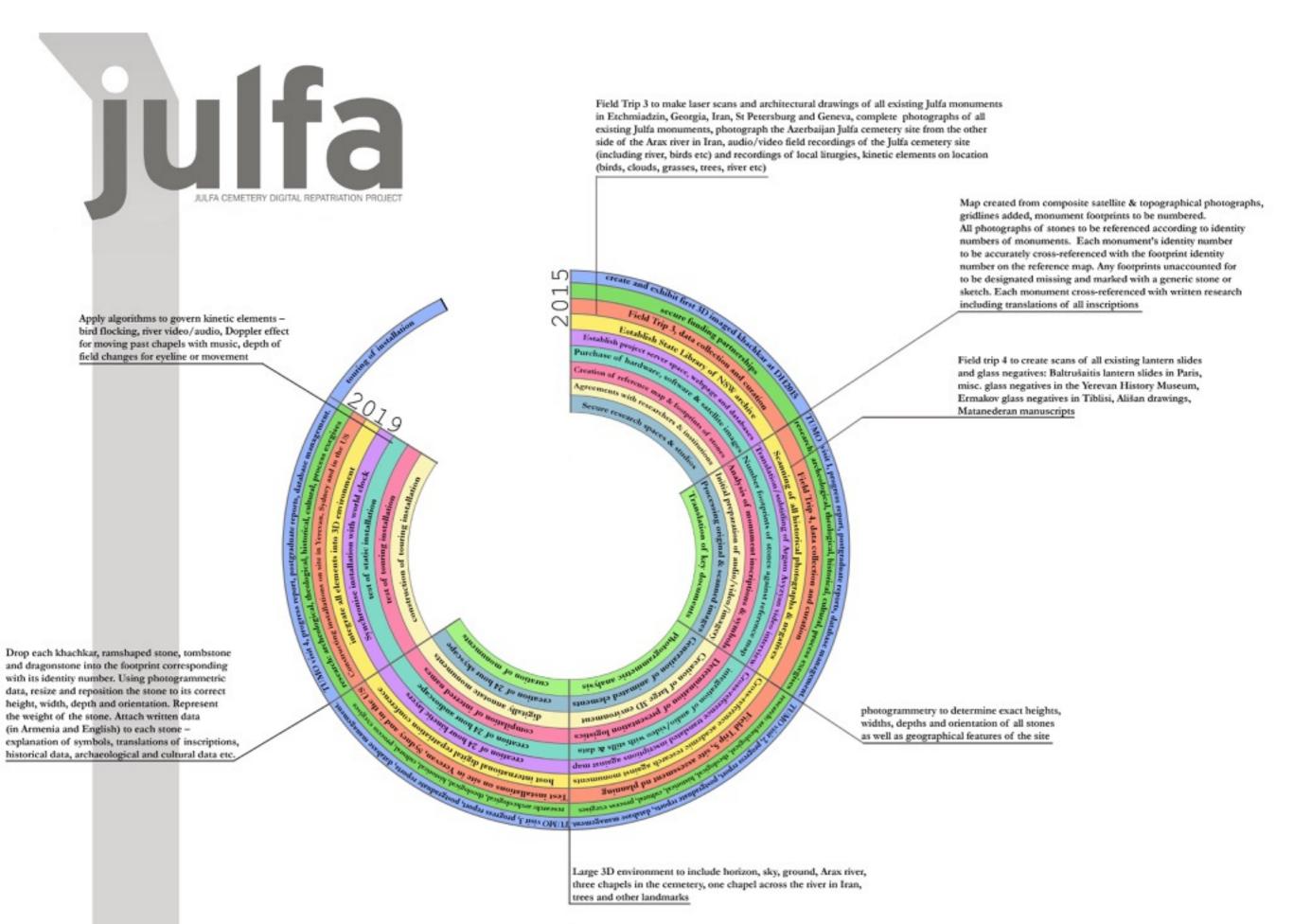




### **Project progress**

- Field trip 1: initial information gathering; assess significance to Armenian communities; assess availability of data; identify collaborators
- Field trip 2: report on progress; identify new resources & collaborators
- Field trip 3: follow up on outstanding resources
- Pilot 3D model of an extant khachkar (exhibited at DH2015)
- Contact with relevant & interested cultural heritage projects
- Research on stones & symbolism is under way









### **Project research**

- Symbols used in khachkars some areas of contested opinions plus some gaps in knowledge arising from the 1915 genocide
- Each stone to identify & honour the individual it commemorates
- Position of each stone in the cemetery using all the different resources available
- Technology research to enable creation of permanent 3D installations that are sufficiently 'real' they can be used not only for information and education, but also for ritual
- Researchers from: archaeology; architecture; stone carving; history; cultural history; theology & Armenian church history; photography & photogrammetry; sound; digital humanities





### **Digital Repatriation...**

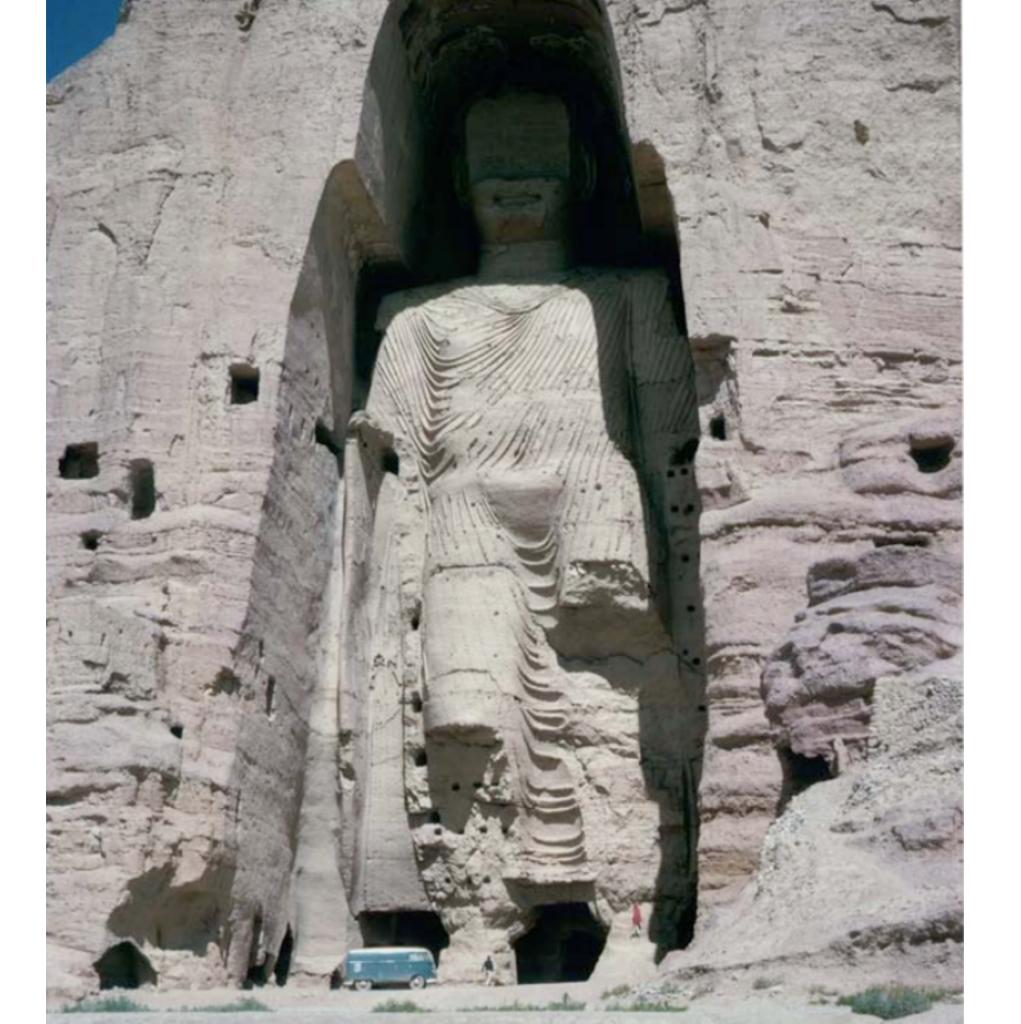
- Making available lost or fragile cultural heritage by digital means
- Needs to be community-based
- Technology must be appropriate to the community and purpose
- Opportunities for collaboration at project and technical levels
- Wide range of national and international contexts & projects



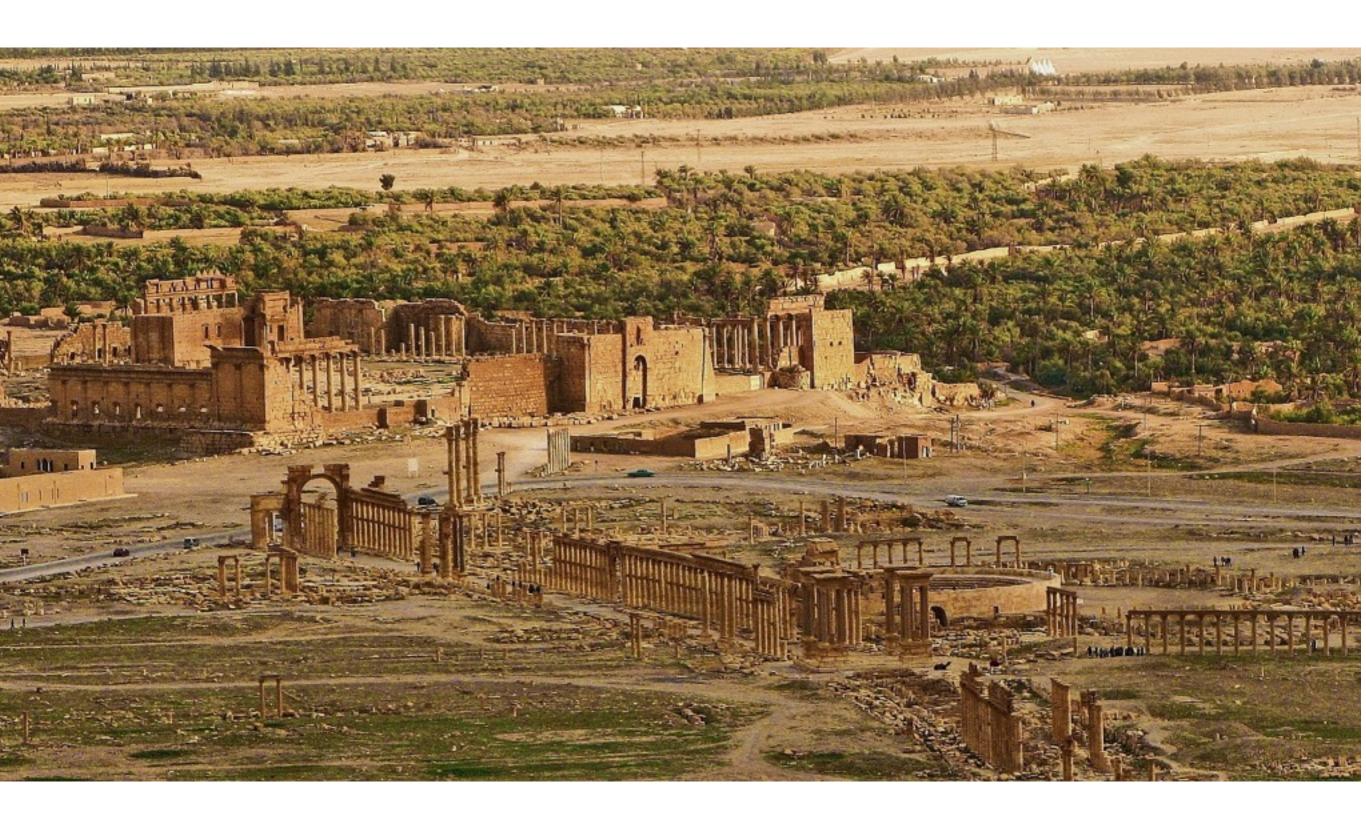


# Digital Repatriation : to counter cultural genocide

- Making available lost or fragile cultural heritage by digital means
- Needs to be community-based
- Wide range of national and international contexts & projects
- Technology must be appropriate to the community and purpose
- Opportunities for collaboration at project and technical levels
- Of growing importance in a context of rapid escalation internationally of cultural genocide



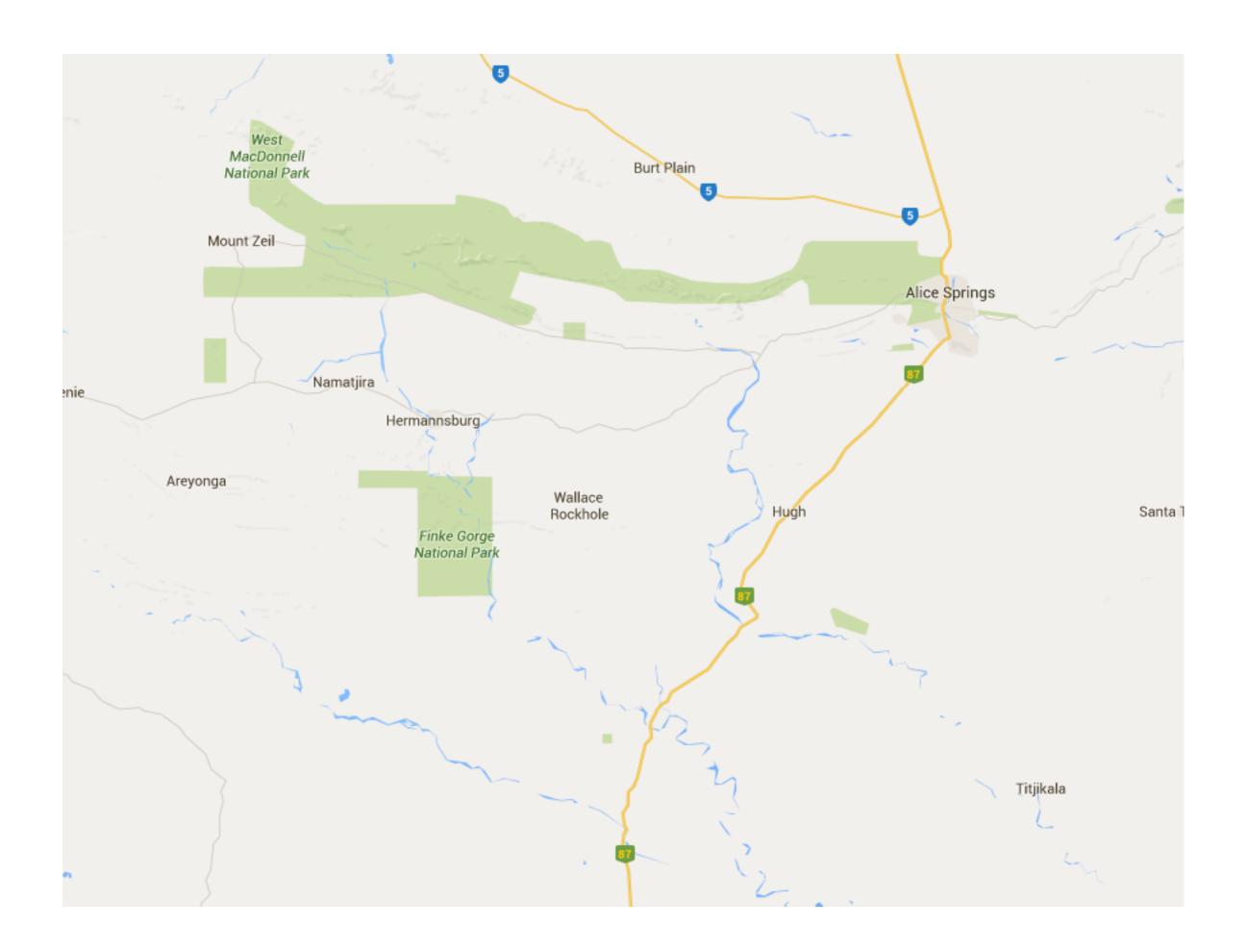














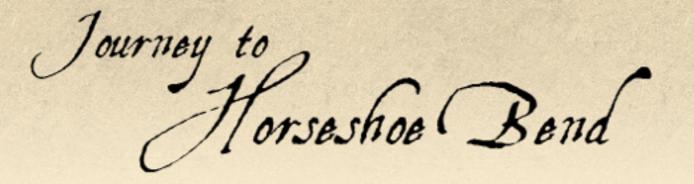


# **Journey to Horseshoe Bend**

- TGH Strehlow archive of films, sound recordings, photographs, documents,
   objects housed in Museum of Central Australia, Alice Springs
- Ceremonial life of Arunda\* people is a particular focus; many sacred ceremonies & objects
- Much of archive digitised as part of JHB project (Hart Cohen)
- One of many Australian projects concerned with digital repatriation
- Community engagement e.g. 'digital story telling'
- Alternative spellings: Arrernte; Arrente; Arrarnta; Arranta







### Introduction to the Media Gallery

Welcome to the Media Gallery for the Journey to Horseshoe Bend project.

Images, audio and film have been collected from various sources across Australia. The collection displayed represents only a small selection of the material collated for the 'Journey to Horseshoe Bend' project. The materials have been sourced from archives, museums, universities, libraries and private collections.

### Important note and Indigenous warning

This site contains Indigenous content. To many communities, it is distressful and offensive to depict persons who have died. Indigenous communities that may be affected are warned that this website, including film clips, may contain such scenes. Please also be aware that many of the photographs and films in the collection are records of their time, with language use and attitudes that reflect that period in history.

For information relating to Sources and Copyright please see link in the menu.

#### THE PROJECT

Project Overview Objectives

Project Team Heurist Database

#### THE MEDIA GALLERY

Introduction

#### Photos

- > People
  - Carl Strehlow
  - Theo Strehlow
  - Heinrich
- > Places
  - Finke River
  - Horseshoe Bend
  - » Hermannsburg

#### Movies

- > An AIM Patrol
- > Alice Springs Blacks
- > Half-Caste Children
- > Heemansburg
- > Horseshoe Bend Hotel
- > Prisoners Cattle Spearing

### Music

- > Song 1
- > Song 2
- > Song 3

### THE ARCHIVES

Sources & Convright

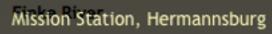
Finke River | Horseshoe Bend | Hermannsburg

THE PROJECT

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Project Team

Close X





4 of 5 Source: Strehlow Research Centre Photo by: Otto Tschirn

THE PROJECT

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Close X

Finke River Hermannsburg Mission Church (exterior)



Source: Strehlow Research Centre Photo by: Otto Tschirn



Source: NAA: National Archives of Australia Photo by: DD Smith



Lubras washing in the Finke

Source: Strehlow Research Centre Photo by: Otto Tschirn

> Song 3

THE ARCHIVES

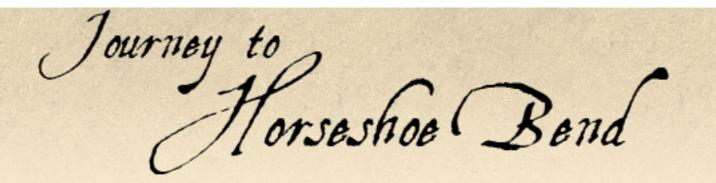


Source: Strehlow Research Centre Photo by: Otto Tschirn

> Song 3

THE ARCHIVES

Sources & Convrigi



### **Objectives**

Key objectives of the project;

- Education
- Preservation of language, culture and traditional knowledge
- · Knowledge sharing, creation and transfer
- · Encouraging the use of new media and technology in remote Australia
- · Story telling and engagement with Digital Humanities to enhance social cohesion

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### THE MEDIA GALLERY

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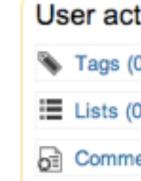
# Mr Strehlow's films

# Film Australia

View the summary of this work

Bookmark http://trove.nla.gov.au/work/3901305

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# 10 editions of this work Find a specific edition

<b>≡ :::</b>	Title, Author, Edition	Date	Language	Format	Libraries▼
	Mr Strehlow's films Lindfield, N.S.W. Film Australia	2001	Eng	Video	1 & Online (access
	Mr Strehlow's films [videorecording]. Lindfield, N.S.W.: Film Australia,	2001	English	Video	27
	Mr. Strehlow's films / a film by Hart Cohen. [videorecon Lindfield, N.S.W.: Film Australia, 1 videodisc (DVD) (52 min 27 sec): sd., col., with b&w sequ	2001	English	Video	15
	Mr. Strehlow's films / written and directed by Hart Coh	en, producer, 2003	Adrian Herrin English	videoreco Video; Captioned	rding] / 2
	Mr. Strehlow's films / a film by Hart Cohen. [videorecond 1 videocassette (VHS) (52min) : sd., col., with b&w sequence	rding] / 2001	English	Video	2
	Mr. Strehlow's films / written and directed by Hart Coh	en, producer, 2006, 2003	, Adrian Herrin English	ng. [videoreco Video;	rding] / 1





# Digital Repatriation...some questions

- Who 'owns' cultural memory e.g. artefacts / archival materials?
- Should anyone have a power of 'veto' (or other form of absolute control)?
- How to deal with competing 'claims'?
- How to bridge the gap between 'then' and 'now'?
- How to deal with materials or descriptions now considered inappropriate or even offensive?

# Office of Aboriginal and Torres Strait Islander Employment and Engagement

### OATSIEE

- > Acknowledgement of traditional owners
- > About us
- > Action Plan 2014-17
- > Generations of Knowledge Profiles
- > Benefits of working at UWS
- Information for hiring managers
- > Elders on campus
- > News and events
- Tell us your reconciliation story
- Welcome to country booking form
- Significant dates
- 'Generations of Knowledge' Virtual World
- Generations of Knowledge

# 'Generations of Knowledge' Virtual World

Generations of Knowledge - exploring a virtual world pre contact 1770

### Presentation Trailer

Presentation trailer for the Virtual Exploration - Pre Contact project, picturing life of a Darug clan around year 1788.







## Pacific and Regional Archive for Digital Sources in Endangered Cultures

Safeguarding research in Australia's region

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### PARADISEC QUICK LINKS

Do you want to deposit with PARADISEC?

CFP - PARADISEC 2013 conference

Australasian Association for Digital Humanities Inaugural Conference, March 2012

PARADISEC in the Press listen to Nick Thieberger discuss endangered recordings on Radio Australia

PARADISEC NEWS -Winners of 2008 VERSI prize....

Recent PARADISEC publications

Ethnographic Eresearch (EthnoER)

Endangered Languages & Cultures Blog

### PARADISEC

The Pacific and Regional Archive for Digital Sources in Endangered Cultures offers a facility for digital conservation and access to endangered materials from all over the world. Our research group has developed models to ensure that the archive can provide access to interested communities and conforms to emerging international standards for digital archiving. A primary motivation for this project is making field recordings available to those recorded and their descendants. While initially conceived of as an archiving project focusing on the Asia-Pacific region, PARADISEC has developed into a centre for activities including:

- Training in data management (lexicographic software and transcription) and interlinearising of texts), recording techniques and data linkage
- Provision of a catalogue in which users can create descriptions of their collections
- Standardized Metadata creating the descriptions in forms that conform to relevant standards and are harvested by the Open Archives Initiative search engines, enabling access for a wider community
- Building models that show how to make reusable data (e.g. ExSite9) and using current tools such as Elan and Toolbox
- Building models that show how to reuse data (e.g. EOPAS, online) dictionaries, ITunes repositories)
- Cultural preservation backup and data provision for cultural agencies in the region (e.g. Institute for PNG Studies, Vanuatu Cultural Centre)
- Global Focus meeting the demand to house files with a research focus from all over the world (including USA, Chile, Mexico)



How you can help

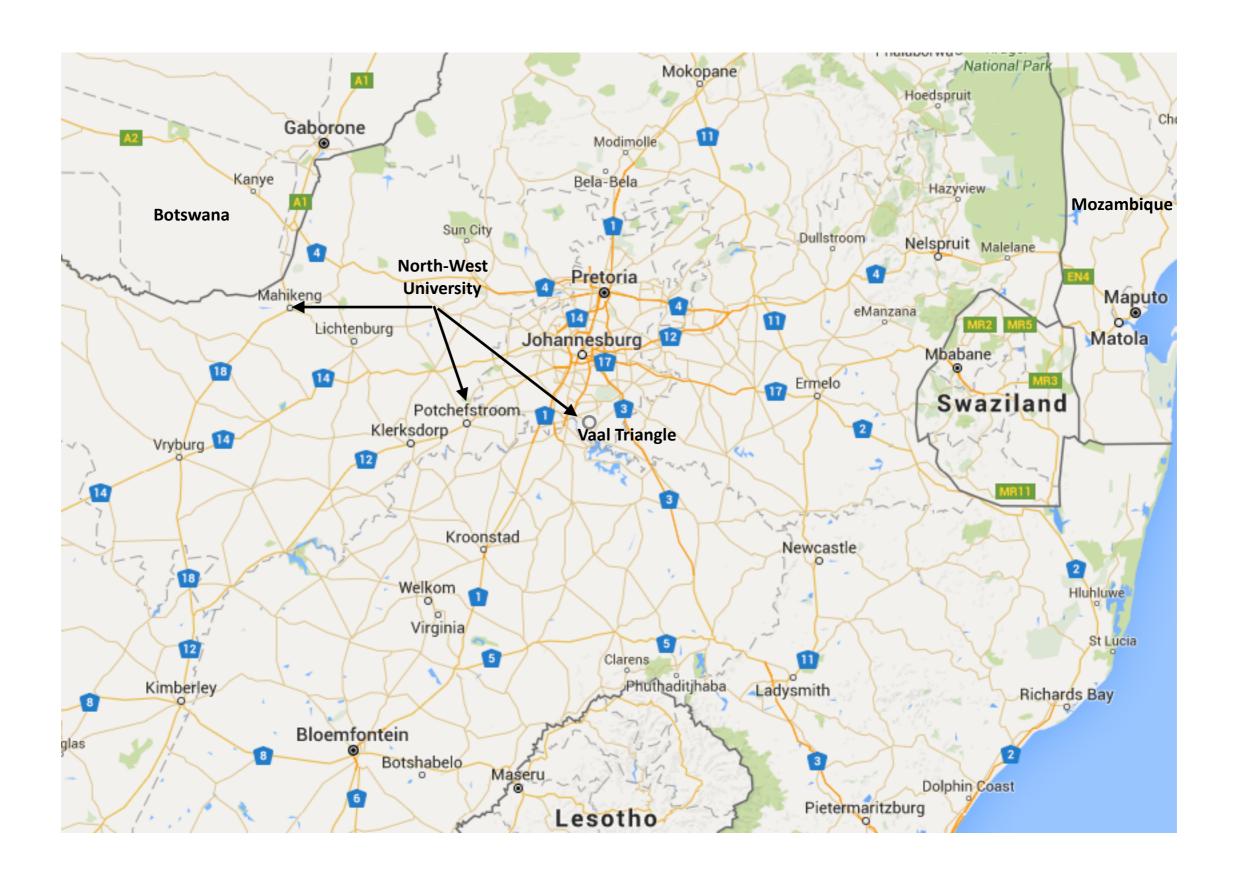
Basic metadata describing PARADISEC's collection can be freely and easily searched through OLAC, ANDS or the LINGUIST LIST gateway. Access to the more detailed internal catalogue records is. available here: http://catalog.paradisec.org.au.

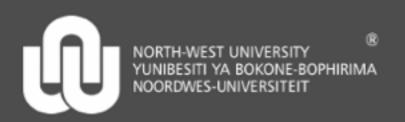
Access to data in the PARADISEC repository is available to those who have signed an access form. A nominal fee may be charged for files delivered on CD/DVD. Completed forms should be posted or faxed to PARADISEC (Sydney).

PARADISEC has been funded by the Universities of Sydney, Melbourne, New England, ANU the Australian Research Council and Grangenet.

Data Seal of Approval

View a glossary of acronyms.





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Afrikaans

Setswana

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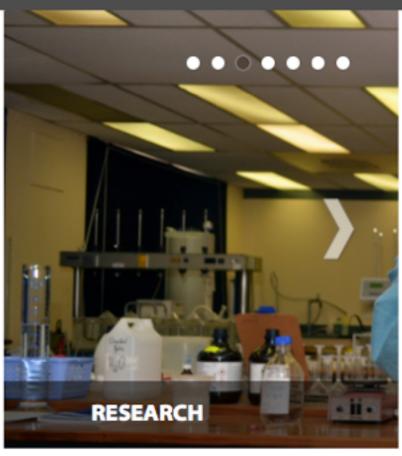
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# **QUICKLINKS**













# South Africa: Official languages

- Afrikaans
- English
- Ndebele
- Northern Sotho
- Sotho
- Swazi
- Tsonga
- Setswana
- Venda
- Xhosa
- Zulu





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### CTexT® makes a major contribution to multilingualism with Autshumato

The Centre for Text Technology (CTexT®) at the North-West University (NWU), Potchefstroom Campus, is facilitating translation and communication in South Africa through the Autshumato machine translation project.

Autshumato is a collection of open-source translation software and tools that are developed and managed by CTexT®. It is already being used by the National Language Service, translators in parliament, the NWU Institutional Language Services, the University of Johannesburg as well as the University of the Free State and has been downloaded internationally by users in China, Spain, Denmark and Norway, among others. Read more

### Quick links

### Afrikaanse SkryfGoed

Proofing tools for Microsoft\*

Office.



Autshumato Integrated Translation Environment

> (Opensource)





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Vowel chart

▼ Development

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Core technologies

Research

Focus and expertise

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Useful links



- Corpora from gov.za for 10 languages
- Custom dictionaries for 10 languages
- · isiZulu corpus from gov.za
- List of Tshivenda words containing diacritics (D, T, L, N, N, d, t, J, n, n)
- NWU Bible corpus
- Training data for Lia 1.0.0.
- Tswana Learner English Corpus
- WebCrawler

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### Centre for Text Technology (CTexT\*)

### Language Resource Management Agency

South Africa boasts its very own Language Resource Management Agency (RMA) for the management and distribution of reusable digital text and speech resources for all of the country's official languages. These resources are crucial for research and development in the domain of human language technologies (HLT) for application to local languages.

Examples of HLT applications are

- · automated telephone information systems,
- GPS systems,
- · spelling and grammar checkers,
- machine translation systems that function in various South African languages, etc.

These types of applications are increasingly being used on mobile devices, giving South Africans unprecedented access to information and services in local languages.

The Department of Arts and Culture's National Centre for Human Language Technologies is funding this exciting initiative, which is in line with similar global initiatives. CTexT has been appointed to establish the RMA, and to distribute reusable text and speech resources from this one central point.

Broad categories of data relevant to the RMA include text, speech, language-related video, multimodal resources (such as sign language), as well as pathological and forensic language data. Visit www.rma.nwu.ac.za for more information.







# Creating as well as recording cultural memory...some questions

- Who 'owns' cultural memory e.g. artefacts / archival materials?
- What 'rights' do groups or individuals have:
  - for access to digital tools & resources?
  - for preserving 'their' cultural expression?
- How to deal with competing 'claims'?
- How to bridge the gap between 'now' and 'the future'?





# Referenced websites

- Julfa Cemetery Digital Repatriation project: https://julfaproject.wordpress.com
- Journey to Horseshoe Bend project
   http://pubsites.uws.edu.au/coa/soca/jthb/
- North-West University: Centre for Text Technology (CTexT®)
   http://www.nwu.ac.za/ctext
- Language Resource Management Agency
   <a href="http://www.nwu.ac.za/ctext/rma">http://www.nwu.ac.za/ctext/rma</a>





## **Professor Harold Short**

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