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**Whole of Community  
Engagement**  
Initiative

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# Indigenous Research and Digital Technologies

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Whole of Community Engagement Initiative

# Acknowledging collective efforts



We would like to acknowledge the collective efforts of the WCE team. Whilst this presentation is largely based on our own reflections, they are drawn from our collective experiences.





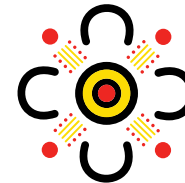
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# Whole of Community Engagement Initiative

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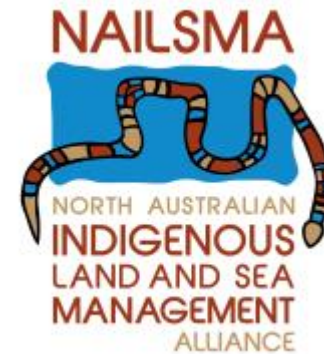
**Australian Centre for  
INDIGENOUS KNOWLEDGES  
& EDUCATION**



**Batchelor  
Institute  
of Indigenous  
Tertiary Education**



**Northern Territory  
Government**



# Contextualising the Research

## Definitions:

- \* ICTs and digital technologies
- \* Indigenous and Aboriginal
- \* Remote and very remote



Digital photo retrieved from: <http://www.cbrdi.ca/research-areas/digital-technologies-pilot-project/>



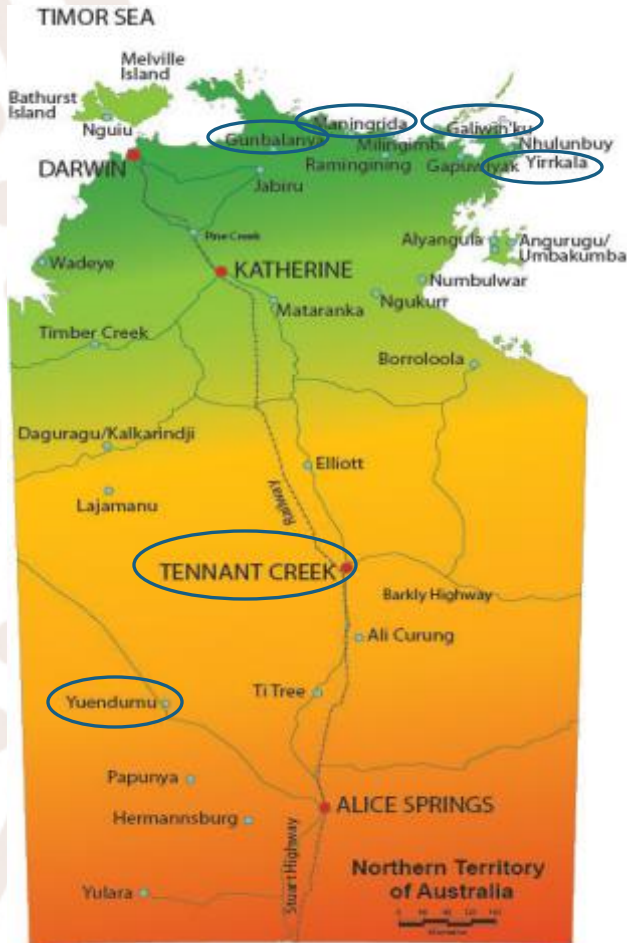
# Our Context



**Whole of Community Engagement Initiative**



# Our Context



- \* Gunbalanya (n = 1,200+)
- \* Maningrida (n = 3,500)
- \* Galiwin'ku (n = 2,100+)
- \* Yirrkala (n = 840+)
- \* Tennant Creek (n = 3,060+)
- \* Yuendumu (n = 810+)



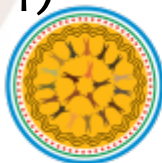
# Research focus

## **Early data collection and community consultation:**

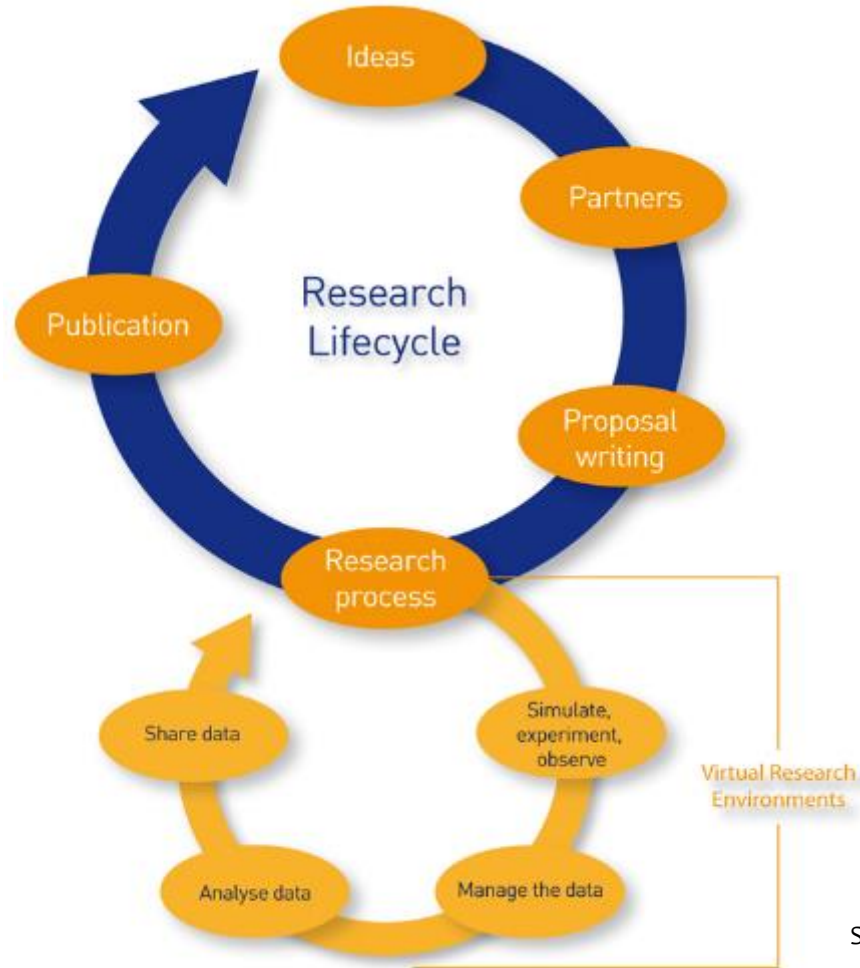
- \* Research and educational pathways Aboriginal researchers

## **Literature:**

- \* Aboriginal researchers leading and conducting Aboriginal research (National Aboriginal Education Committee 1985; Smith 1999; Anderson 2005; Bauman et al 2014)
- \* Aboriginal knowledge, research methodologies and education (Smith 1999, 2005)
- \* Training as an area of need (Smith 1999,2005; Bauman 2014)



# ICTs and Research



Source: research lifecycle diagram  
– HE & Research [www.jisc.ac.uk](http://www.jisc.ac.uk)





# ICTs & Indigenous Peoples

ICT global data (Internet Society 2015)

- \* 3 billion Internet users by May 2015
- \* Mobile Internet penetration is forecast to reach 71% by 2019
- \* Usage per device is forecast to triple by 2019
- \* 192 countries have active 3G mobile network which covers almost 50% of the global population.



# ICTs & Indigenous Peoples

**Table 5. Rates and numbers of broadband household connections, 2011**

Regions 2011	Northern Territory		Greater Darwin	Midtowns	Rest of NT	Rest of Australia
	2011 Indigenous	2011 Non-Indigenous	2011 Broadband	2011 Broadband	2011 Broadband	2011 Broadband
Broadband %	21.8	53.6	58.3	51.9	27.0	60.1
Broadband	3,503	35,254	28,376	8,392	4,589	5,446,807
<b>Total households by region</b>	16,089	65,786	48,712	16,178	16,984	9,057,373

SOURCE: ABS Census 2006 and 2011, ABS Table Builder

Published in © Northern Institute, 2014, (Issue No. 201407)



# ICTs & Indigenous Peoples

ICTs and Indigenous Peoples (Green 2001, Warschauer 2003, Kral 2014)

- \* Technology and culture - negotiating the space
- \* Digital divide (UN 2005)

ICTs in Indigenous lives (Grossman 2008, Christie and Verran 2013, Madden et al. 2012)

- \* Health
- \* Education
- \* Archiving



# ICTs & Indigenous Peoples

## Barriers

- \* Loss of control of Indigenous knowledge (Dyson et al. 2007, Anderson 2013)
- \* Cultural issues (Dyson 2007, Kral 2014)
- \* Training and support (AIATSIS 2014)
- \* Cost (Jain 2006)

## Enablers

- \* Create employment pathways in diverse sectors (Dyson)
- \* Youth (Kral 2014)
- \* E-learning and m-learning
- \* Digital archives and others (Bonny 2007, Christie 2006)
- \* Knowledge Management to protect IK (Jain 2006)



# Finding a meaning

- \* Notion of habitus by Bourdieu used to understand the acceptance of ICTs in Indigenous households (Radoll 2009)
- \* Use of digital technology in qualitative research (Keegan 2012, Sappleton 2013)
- \* ICTs relating to the notions of intention, performance expectancy, effort expectancy & social influence (Brown et al. 2010)





# Possible Research Project

## **Intergenerational learning**

- \* Elders and Youth as researchers
- \* Youth and family as enablers

## **Professional learning with digital technologies**

- \* Action research cycles includes research, professional learning and feedback

## **Sharing data across project communities to unlock habitus and meanings**

