

# Re-conceptualising approaches to academic development in technology-enriched learning environments

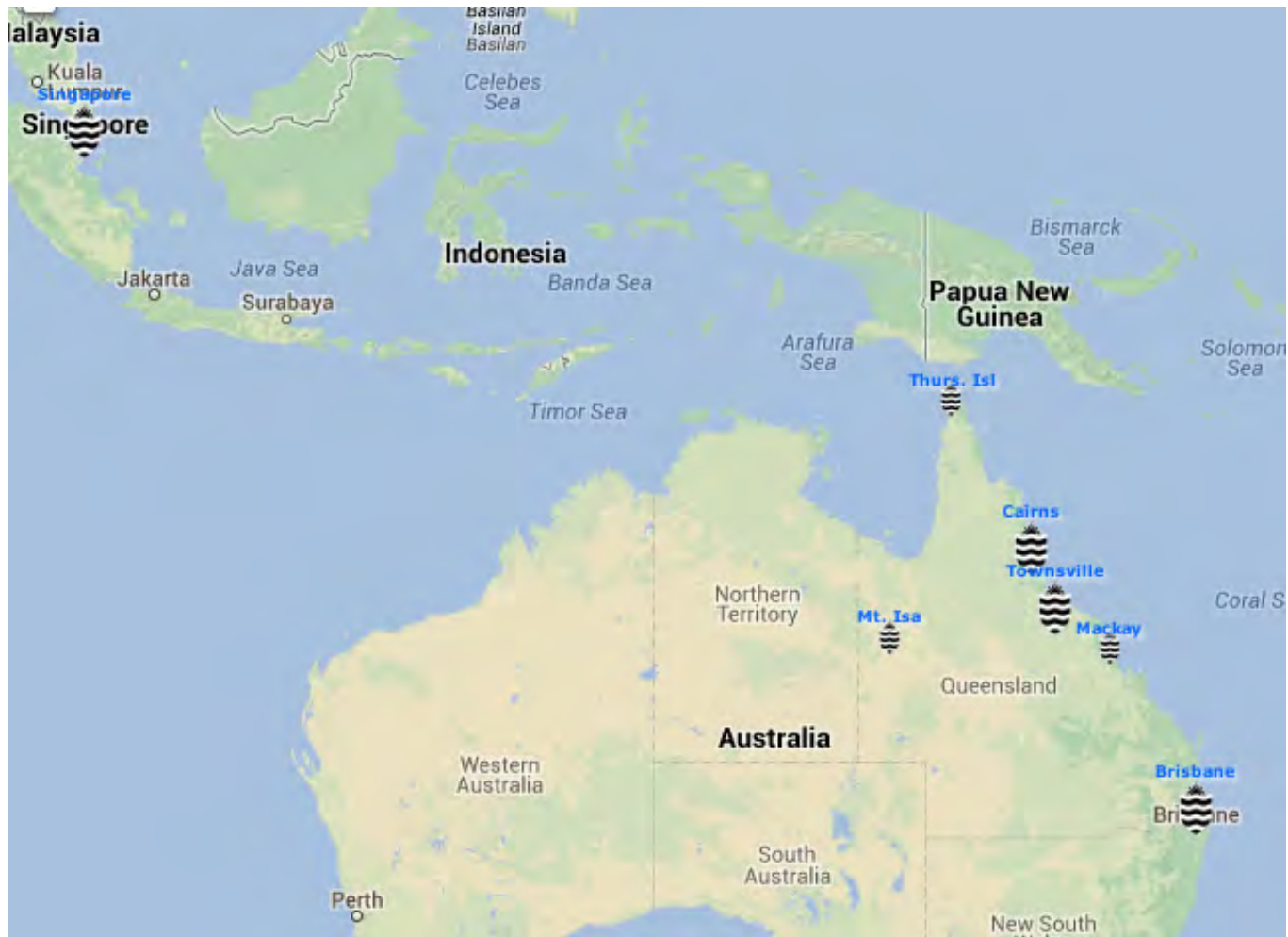
Dr Janet Buchan

Academic Developer

Professor Angela Hill

Dean, Learning Teaching and Student Engagement

# James Cook University





# A University of the Tropics



Australia's largest tropical city



Where rainforest meets reef



Business hub for Asia



Queensland's capital city



The sugar capital of Australia



The hub of Queensland's vast North-West



The most northerly town in Australia

# University Plan 2013–2017

- **Learning and Teaching Plan**
  - *Deliver flexible and inclusive learning environments that capitalise on both face to face and virtual innovations.*
- Blended Learning Policy
- Learning and Teaching BluePrint

# The challenge



Changing from this



To this





From this

To this



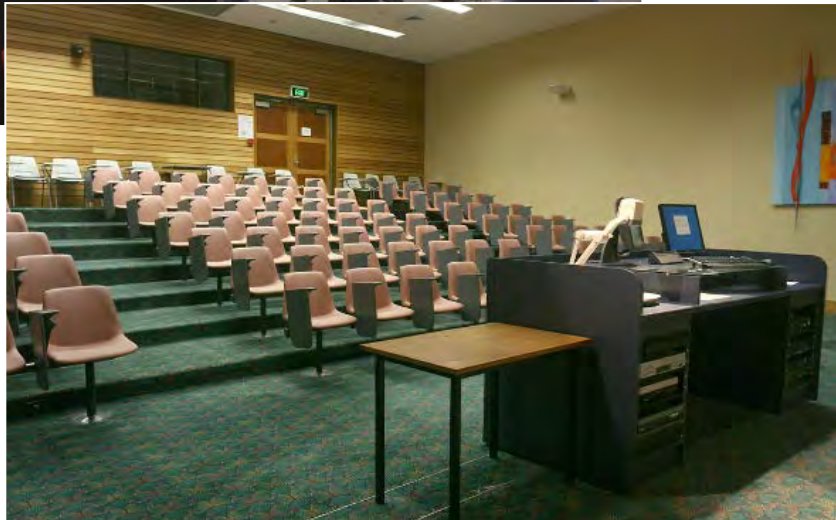
# Transitioning staff to new technology-enriched spaces

and this





# Further challenges



Multi-campus  
teaching by  
videoconference



# Aim of the research

- To contribute to research on effective academic development approaches which support the transitioning process when staff and students move into new technology-enriched learning spaces with new opportunities for active and collaborative learning approaches

# Themes of the paper

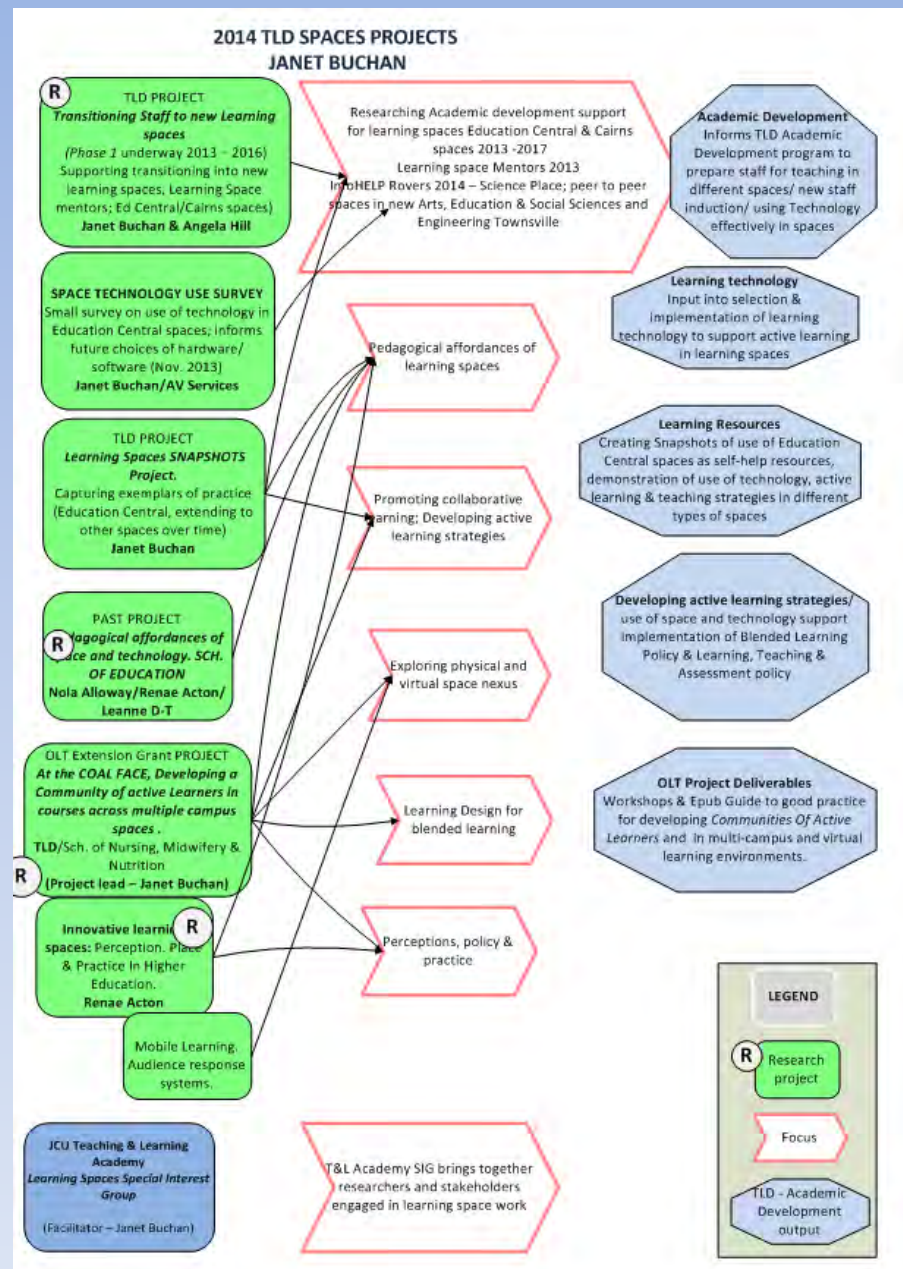


Research into practice

Professional learning programs

Support for staff and students

# 1. Research into practice. An integrated approach





## 2. Professional learning opportunities

**Authentic professional learning**



# 2014

## TLD Professional Learning Series

### ***Working at the COAL FACE:***

*Developing active learning and teaching strategies to engage Learners across multiple campuses through videoconference and blended learning.*



## WORKSHOP

### Exploring Common Learning spaces at JCU

Presented by  
Janet Buchan (Academic Developer)

Teaching and Learning  
Development



in conjunction with

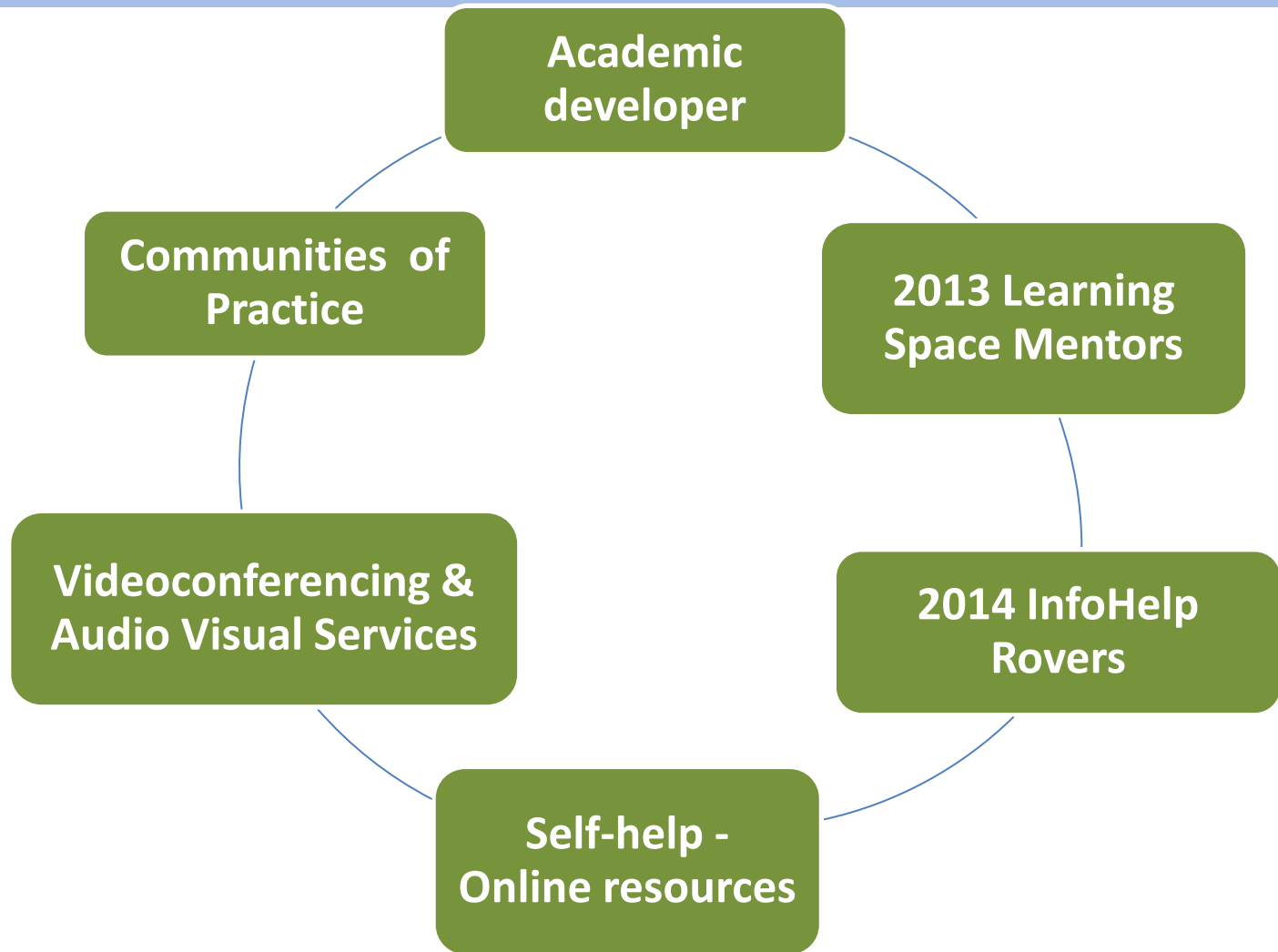
**Videoconferencing and Audio Visual Services**



**ED5301**

***Graduate Certificate of Education (Academic Practice)***

# 3.Support for staff







# Student Rovers supporting staff

Publicity

2014

## *InfoHELP Rovers – our Learning Spaces Aces*

For Staff

- At the start of SP 1 **InfoHELP Rovers** will be supporting targeted teaching spaces and common learning spaces including the Library
- **Rovers** will support academic staff in the basic operation of audio-visual equipment and technology in some teaching rooms
- Assist teaching staff in reporting support issues and service outages to AV Services staff.
- Support students in using the teaching room technology in collaborative learning classrooms and videoconference rooms during targeted time periods

# Student Rovers supporting students

## **Need some IT help...? ...Look for an InfoHELP Rover**

### Get help with:

- Connecting to the eduroam (wireless) network
- Email, LearnJCU, printing and more.

### Where will they be?

- Student learning spaces, eg. Mabo Library, Education Central, Business undercroft, Nursing.
- Look for someone in a blue JCU polo shirt with **InfoHELP Rover** on the back.



Library & Information Services  
InfoHelp@jcu.edu.au  
Telephone: +617 47815500



**Publicity**



# Feedback

“I want to commend TLD on the introduction of Learning Space Mentors this year. It has been amazing for new and old staff to have a technically competent mentor come and get them started at the beginning of a session. Lecturers have been able to focus on greeting students and teaching the instead of fluffing around with unfamiliar technology and adjusting lighting. This has taken much of the stress out of the initial first year lectures. A splendid initiative.” *(Associate Dean Teaching & Learning, Cairns. 2013)*

“Without the InfoHelp Rovers’... service it is possible some of the students might just drop out. They were really lost that [first] week. *(InfoHelp Rover)*

Many thanks Janet. The two InfoHelp Rovers were of an invaluable assistance yesterday morning, both kept busy...assisting students with personal laptops and mobile / tablet devices to download required software.  
*(Lecturer, Technology Enhanced Active Learning Room, Townsville)*



# Communities of Practice

**Teaching &  
Learning  
Academy**

**Learning Spaces  
Special Interest  
Group**

**Research  
Groups**

**Learning  
Spaces  
Leadership  
Group**

**Multiple  
stakeholders**

**Teaching &  
Learning  
Development  
Grants  
Collaboration**



## Contemporary learning spaces



Contemporary learning spaces encourage active and collaborative learning experiences. These spaces need to be flexible to allow teachers and students to adapt to a range of approaches. JCU's campuses offer modern learning spaces that range from formal spaces including lecture theatres, tutorial rooms and practical laboratories to state-of-the-art-connected classrooms that link students across our region and beyond, as well as smaller, collaborative spaces.

JCU will continue to explore developments and technologies that offer innovative learning spaces for students.

## Academic development and learning spaces

TLD offers academic development support for staff towards the effective use of learning spaces and learning technology. [Teaching in the New Learning Spaces](#) (PDF 2MB) is an introductory guide to interactive strategies in active learning classrooms.

Together with the [Learning and Teaching Academy](#), TLD is leading research into JCU's learning spaces including the transition of staff and students to new learning spaces.

## Teaching and Learning Academy

### Learning Spaces Special Interest Group

## JCU Contemporary Learning spaces

[http://www.jcu.edu.au/learnandteach/projects/JCU\\_116391.html](http://www.jcu.edu.au/learnandteach/projects/JCU_116391.html)

# Online, self-help resources

## Teaching in the new learning spaces



Student research

## Virtual Room

## AV Services

Move the mouse over the picture, left click and drag in the direction you wish to explore. To zoom in/out, place the mouse cursor anywhere on the image and press the Shift or Ctrl key.



# Learning Spaces SNAPSHOTS

*Technology | Space | Collaborative Learning*

LEARNING TEACHING AND  
STUDENT ENGAGEMENT



<https://sites.google.com/site/jculearningspaces/home/the-project>



# Browse the SNAPSHOTS



## The value of peer to peer learning spaces

The features and variety of student use of peer to peer learning spaces are described

[PLAY VIDEO](#)

[HD VIDEO](#)



## An overview of the affordances of Education Central

[PLAY VIDEO](#)

[HD VIDEO](#)



Never too old to learn, never too young to teach,  
The XO Professors. Young pre-students turn teachers in the TEAL room, sharing their knowledge and skills with XO laptops with pre-service teachers and lecturers

[PLAY VIDEO](#)



## Effective use of technology in a large Collaborative Lecture Theatre

Space design and technology in the collaborative lecture theatre support a blended learning approach in a large undergraduate course

[PLAY VIDEO](#)

[HD VIDEO](#)



## Blending for interactive learning in a large class

A blended learning approach in a large undergraduate course is supported by technology in the collaborative lecture theatre

[PLAY VIDEO](#)  
[VIDEO](#)

[HD](#)



## Collaborative learning in practice

Staff and students describe their experiences of collaborative learning in the different types of spaces in Education Central

[PLAY VIDEO](#)

[HD VIDEO](#)

# Promoting & inspiring effective use of learning spaces and technology

## The Learning Spaces SNAPSHOTS Project Information

### Aim



The Learning Spaces SNAPSHOT Project aims to capture examples of active learning and teaching in on-campus learning spaces at JCU. The snapshots will be used for a variety of purposes: as learning resources for professional development programmes, as self-help resources for staff, to showcase good practice and to promote JCU.

The process of capturing and creating the snapshots is a professional learning opportunity and will encourage guided reflection on personal teaching practice by using sound learning design principles.

# JCU Learning Spaces

Home

**The Project**

The SNAPSHOTS

The Spaces

Pedagogy in practice

Technology

Acknowledgements

Home >

## The Project

The **Learning Spaces SNAPSHOT Project** captures examples of the effective use of learning spaces and teaching and learning in action at JCU. Through the SNAPSHOTS academic staff share insights into their teaching approaches and how they are using different rooms and technology to engage students in a variety of active and collaborative learning experiences. Staff give valuable insight into how the features of specific spaces (rooms) and technology enable different modes of learning.

<https://sites.google.com/site/jculearningspaces/home/the-project>

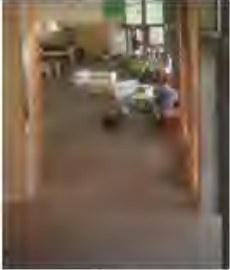



[http://www.jcu.edu.au/learnandteach/projects/JCU\\_116391.html](http://www.jcu.edu.au/learnandteach/projects/JCU_116391.html)

# Pedagogy in Practice

SNAPSHOT	Pedagogy/ Learning and teaching strategies
An overview of the affordances of Education Central <a href="#">PLAY VIDEO</a>	Education Central provides a variety of spaces that support a range of modalities of learning: discursive, reflective, active and collaborative learning as well as didactic (lecture) modes. The multiple screen technology and room design facilitates <b>self-directed, student-led and teacher led</b> learning. The building design and variety of spaces support the JCU focus on <b>purposeful blended learning</b> approaches
Collaborative learning in practice <a href="#">PLAY VIDEO</a>	Students and staff outline their experience of <b>collaborative learning</b> in the different spaces in Education Central. The features of the spaces which afford formal and informal collaborative learning are described.
The value of peer to peer learning spaces <a href="#">PLAY VIDEO</a>	<b>Peer to peer learning</b> spaces are being used to support student learning; formal student support is provided by Learning Skills Advisers; co-located school offices mean students can access <i>ad hoc</i> support from staff; students form informal study groups; students take ownership of their spaces and <b>social learning</b> takes place over a cup of coffee.
Effective use of technology in a large Collaborative Lecture Theatre <a href="#">PLAY VIDEO</a>	The space design and technology in the large collaborative lecture theatre (150+) supports purposeful blended learning approaches. This includes mixing <b>didactic teaching of large classes</b> with <b>small group work</b> and <b>technology-enabled learning</b> . The variety of AV technology affords the use of a range of technology. The document camera is used for live <b>demonstrations</b> of solutions/problem solving; use of two projector screens allows the simultaneous use of a presentation and other media such as document camera or tablet. Wide desks and movable chairs allow students to easily form <b>small groups for discussion</b> and for lecturers to move amongst students to provide individual assistance.
Blending for interactive learning in a large class <a href="#">PLAY VIDEO</a>	



# Navigate by Spaces

Room/Space	SNAPSHOT Description	Pedagogy/Learning and teaching strategies
<p>Education Central</p> 	<p>An overview of the affordances of Education Central. <a href="#">PLAY VIDEO</a></p>	
<p>Peer to peer learning spaces</p> 	<p>Collaborative learning in practice <a href="#">PLAY VIDEO</a></p> <p>The value of peer to peer learning spaces <a href="#">PLAY VIDEO</a></p>	<p>Peer to peer learning, independent learning; reflective; small group learning; social learning</p>
<p>134-010 Collaborative Lecture Theatre</p> 	<p>Effective use of technology in a large Collaborative Lecture Theatre. <a href="#">PLAY VIDEO</a></p> <p>Blending for interactive learning in a large class. <a href="#">PLAY VIDEO</a></p>	<p>Large class teaching; didactic learning; collaboration; blended learning approaches; flipped classroom approaches</p>
<p>134-021 TEAL Room</p> 	<p>Engaging students in active learning. <a href="#">PLAY VIDEO</a></p> <p>Engaging students in active learning (extended cut) <a href="#">PLAY VIDEO</a></p> <p>Never too old to learn, never too young to teach. <a href="#">PLAY VIDEO</a></p>	<p>Active learning; collaborative learning; group work; team work; blended learning approaches; technology-enabled learning; Indigenous pedagogy</p>

# Navigate by Technology



**Virtual podiums**



**Videoconferencing and Audio Visual Services**

# Video sample

## Collaborative learning in practice



### Collaborative learning in practice

Staff and students describe their experiences of collaborative learning in the different types of spaces in Education Central

[PLAY VIDEO](#)

[HD VIDEO](#)

# Conclusion

Integrated academic development for  
technology-enriched learning spaces





# Live links

- L&T Spaces webpage  
[http://www.jcu.edu.au/learnandteach/projects/JCU\\_116391.html](http://www.jcu.edu.au/learnandteach/projects/JCU_116391.html)
- Learning Spaces SIG  
[http://www.jcu.edu.au/learnandteach/professionallearning/academy/JCU\\_127164.html](http://www.jcu.edu.au/learnandteach/professionallearning/academy/JCU_127164.html)
- Learning Spaces SNAPSHOTS  
<https://sites.google.com/site/jculearningspaces/home/the-project>
- JCU Contemporary Learning spaces  
[http://www.jcu.edu.au/learnandteach/projects/JCU\\_116391.html](http://www.jcu.edu.au/learnandteach/projects/JCU_116391.html)
- Video 5:55 – 7:13 Collaborative learning in practice. Overview
- Video 4:48 – 5:55 Renae