Exploring the boundaries of academic development for supporting the effective use of diverse learning spaces
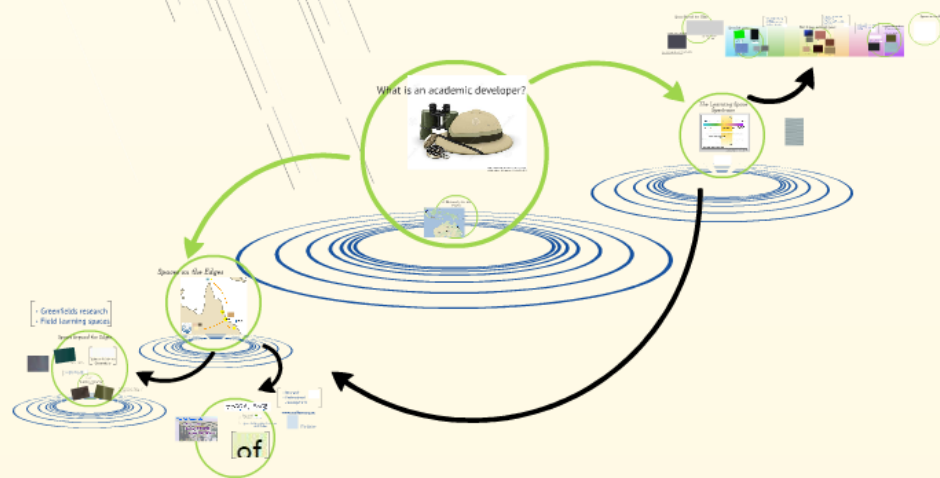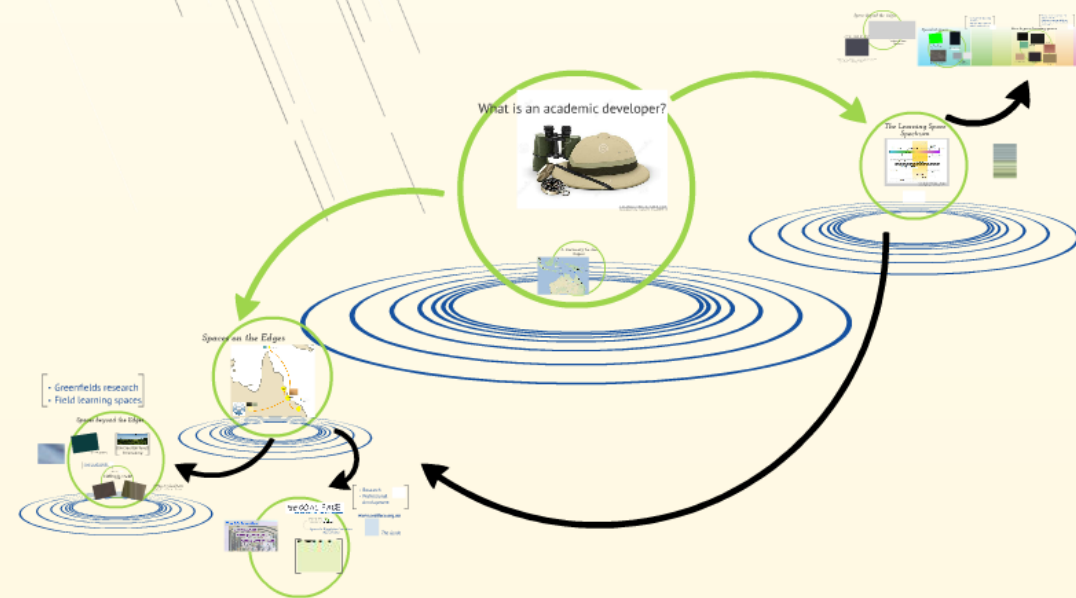
NEW GENERATION
LEARNING SPACE DESIGN 2015

Dr Janet Buchan

Exploring the boundaries of academic development for supporting the effective use of diverse learning spaces

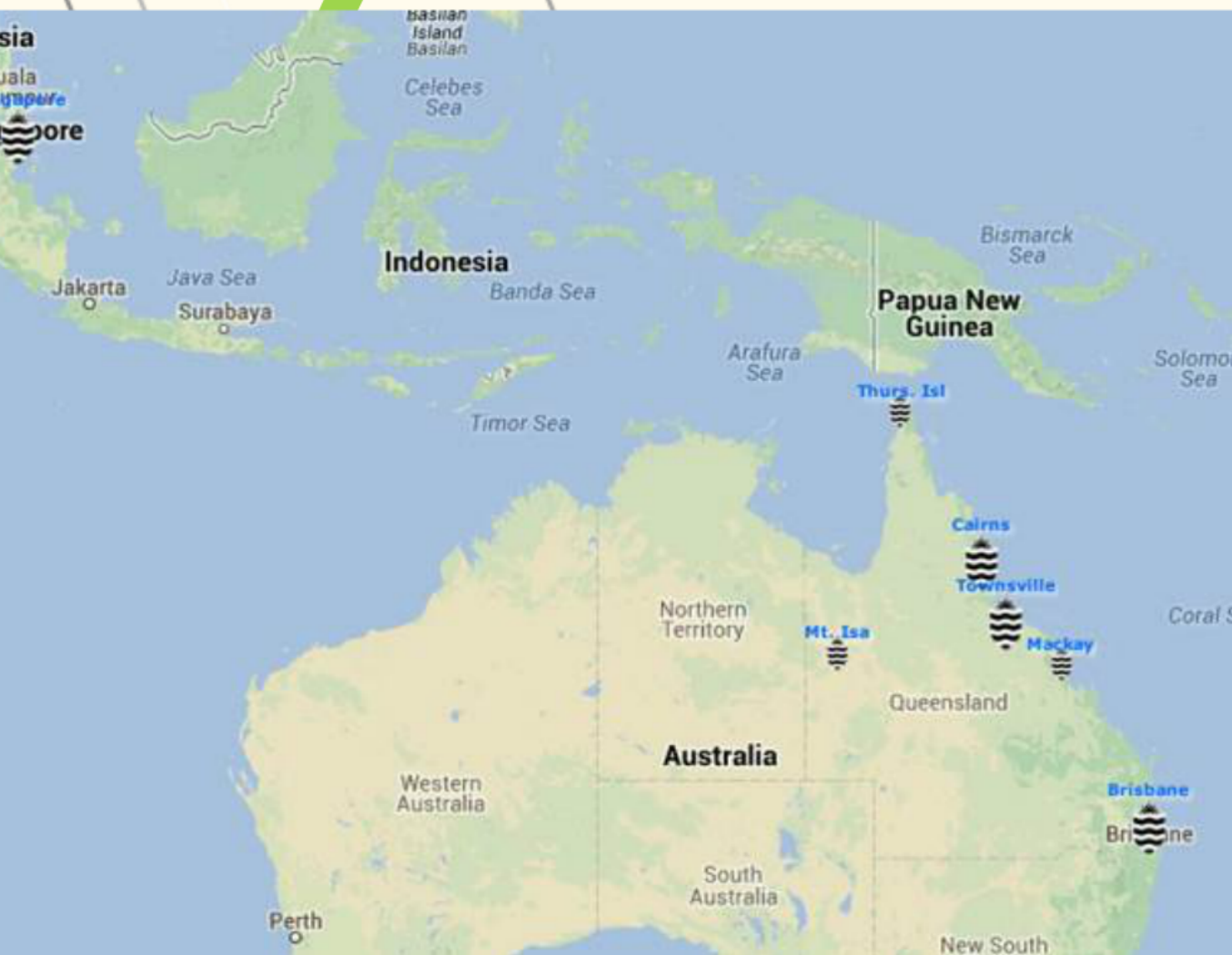**NEW GENERATION** LEARNING SPACE DESIGN 2015

Dr Janet Buchan

A University for the tropics

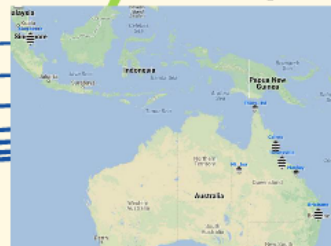# What is an academic developer?

http://www.dreamstime.com/royalty-free-stock-photo-explorer-hat-equipment-image28373475

A University for the tropics
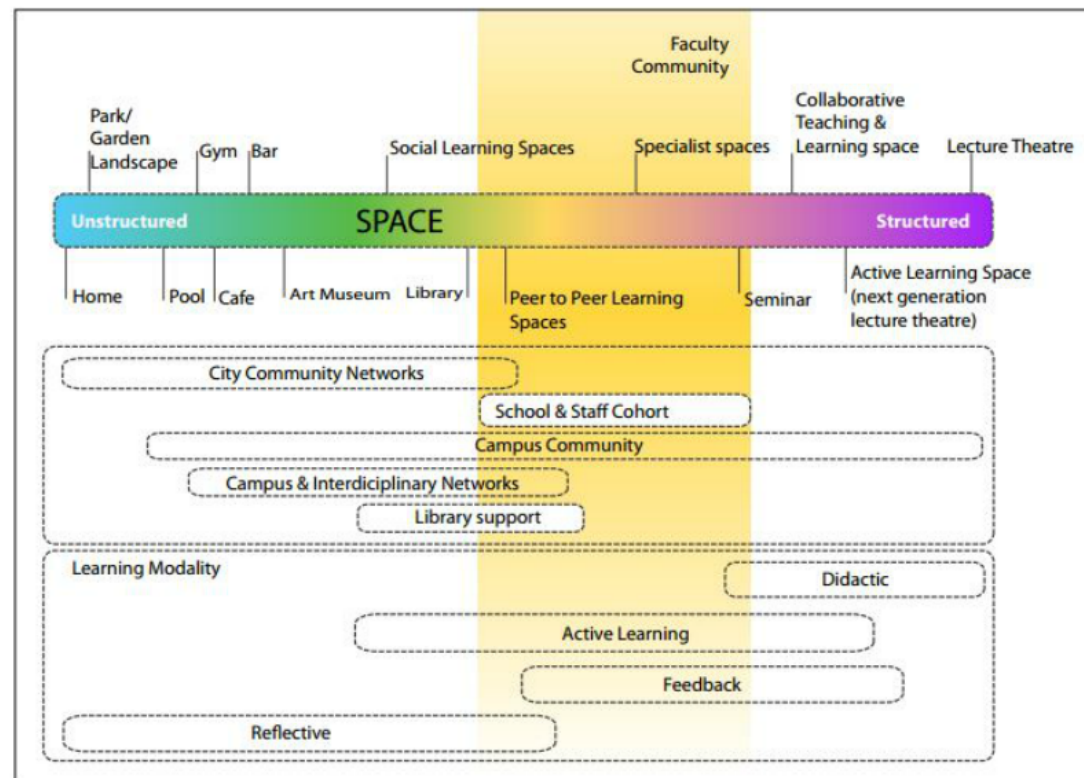
JAMES COOK UNIVERSITY - TOWNSVILLE

PEDAGOGICAL SPACE PLANNING

The Learning Space Spectrum

Faculty Community

Park/ Garden Landscape
Gym Bar
Social Learning Spaces
Specialist spaces
Collaborative Teaching & Learning space
Lecture Theatre

Unstructured SPACE **Structured**

Home
Pool Cafe
Art Museum Library
Peer to Peer Learning Spaces
Seminar
Active Learning Space (next generation lecture theatre)

City Community Networks

School & Staff Cohort

Campus Community

Campus & Interdiciplinary Networks

Library support

Learning Modality

Didactic

Active Learning

Feedback

Reflective

Radcliffe, D., Wilson, H., Powell, D., & Tibbetts, B. (2008). *Designing Next Generation Places of Learning: Collaboration at the Pedagogy-Space-Technology Nexus.* Brisbane: University of Queensland.

Specialist spaces

3D Vislab
eResearch Centre

ACO Virtual orchestra
eMerge SciTex

Outdoor learning spaces
Learning Spaces Specialist Interest Group
Lab 7 for ideas?

Necropsy room
Veterinary Sciences
Learning & Teaching Grant
partnership

- Scholarship in teaching, research
- Communities of Practice
- Multiple stakeholders

Peer to peer learning spaces

Townsville

Mt Isa

Thursday Island

Mackay

Cairns

- Meeting the needs of 'purposeful' blended learning
- Flipping the classroom inside out
- Evaluation & and feedback towards improvements

- Transitioning staff to new learning spaces
- Showcasing practice
- Evaluating the use of the spaces & technology

Learning Spaces sNAPSHOTS

https://sites.google.com/site/jculearningspaces/home

Collaborative teaching
& learning spaces

Education Central - Townsville

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oning staff to new learning spaces

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ogy

Collaborative teaching & learning spaces

Education Central - Townsville

Learning Spaces SNAPSHOTS
Technology | Space | Collaborative Learning

https://sites.google.com/site/jculearningspaces/home

https://www.dropbox.com/s/400vn2rf5mimh8g/Renae1.mp4?dl=0

- Transitioning staff to new learning spaces
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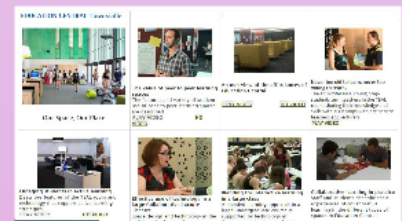- Evaluating the use of the spaces & technology

Education Central - Townsville

Learning Spaces SNAPSHOTS
Technology | Space | Collaborative Learning

https://sites.google.com/site/jculearningspaces/home

https://www.dropbox.com/s/400vn2rf5mimh8g/
Renae1.mp4?dl=0

EDUCATION CENTRAL Townsville

Our Space, Our Place

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 prep-students turn teachers in the TEAL room, sharing their knowledge and skills with XO laptops with pre-service teachers and lecturers
PLAY VIDEO

Engaging students in active learning
Describes features of the TEAL room and technology that support active learning strategies
PLAY VIDEO   **HD VIDEO**

Effective use of technology in a large Collaborative Lecture Theatre
Space design and technology in the collaborative lecture theatre

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

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

Peer to peer learning spaces

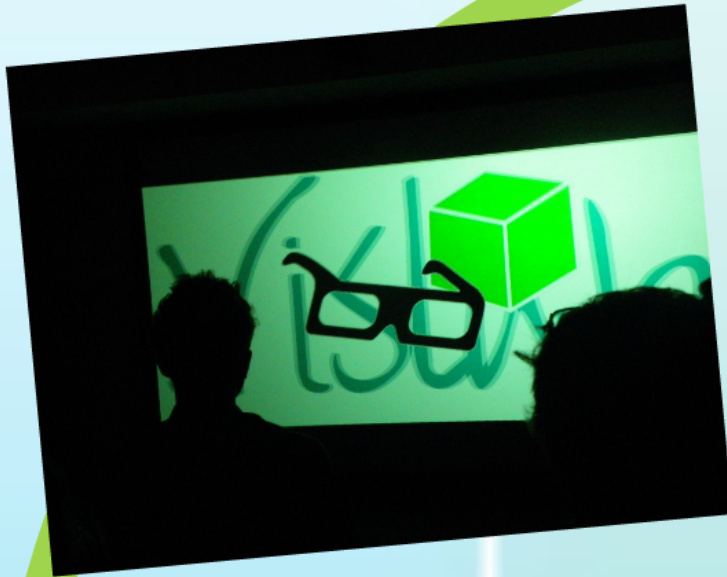Townsville

Mt Isa

Thursday Island

Mackay

Cairns

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- Flipping the classroom inside out
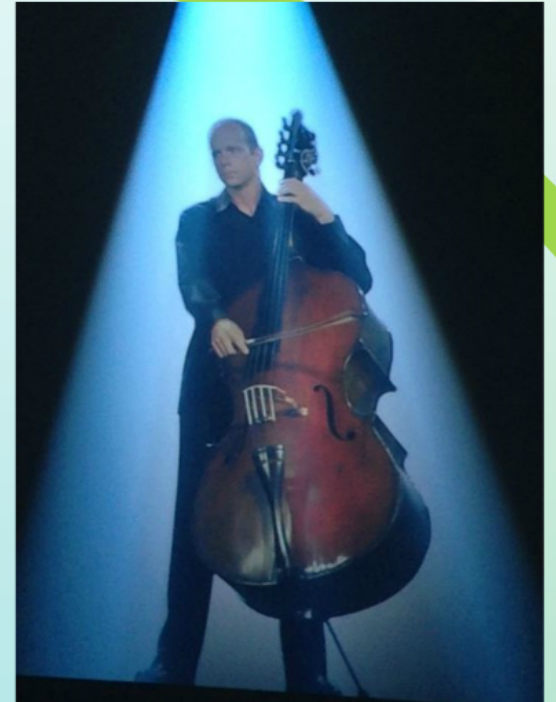- Evaluation & and feedback towards improvements

arning spaces

Specialist spaces

3D Vislab
eResearch Centre
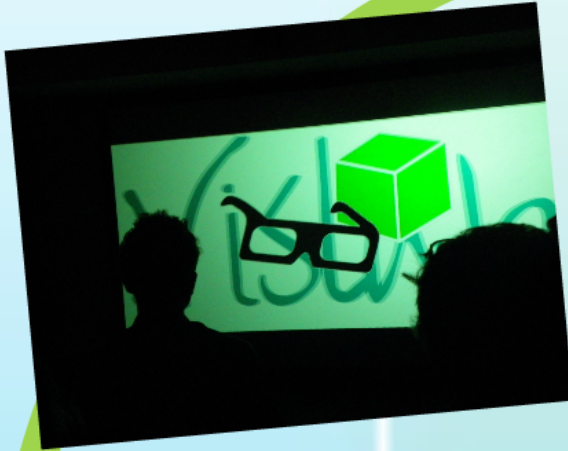
ACO Virtual orchestra

eMerge Gallery

- Scholarship in teaching, research
- Communities of Practice
- Multiple stakeholders

Specialist spaces

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eResearch Centre

ACO Virtual orchestra

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Outdoor learning spaces
Learning Spaces Specialist Interest Group
(L&T Academy)

Necropsy room
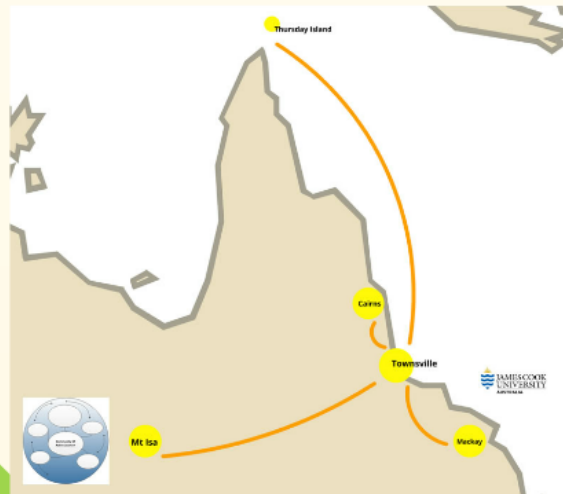Veterinary Sciences
Learning & Teaching Grant
partnership

Necropsy room
Veterinary Sciences
Learning & Teaching Grant partnership

Spaces on the Edges

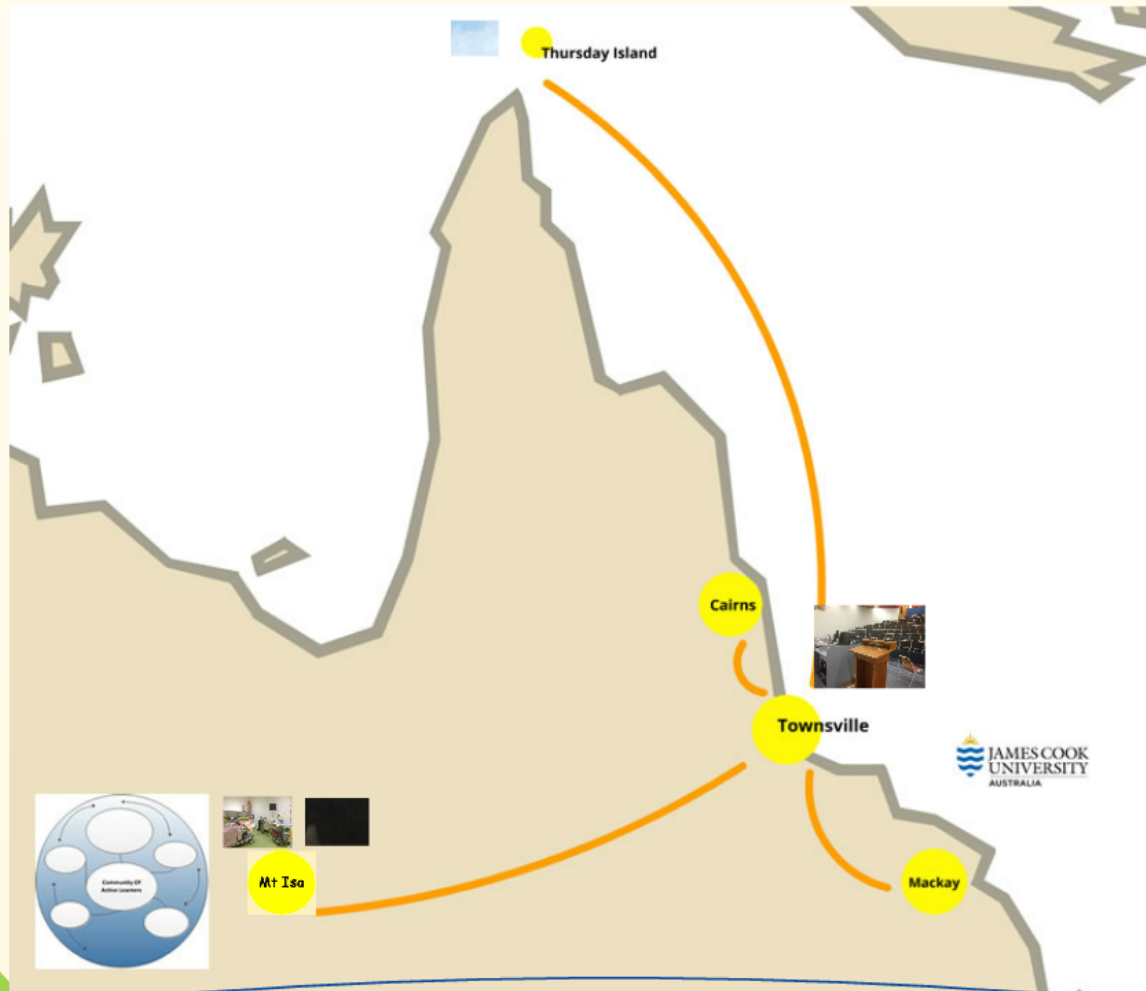## Collaborative teaching & learning spaces

Education Central - Townsville

SNAPSHOTS

ulearningspaces/home

Thursday Island

Cairns

Townsville

JAMES COOK UNIVERSITY

Mt Isa

Mackay

Spaces on the Edges

Mt Isa

teaching at the COAL FACE

Communities of Active Learners, Flexible Adaptive Connected Engaged

Office of Learning & Teaching Extension Grant 2013-14

Office for Learning & Teaching

Spaces for Knowledge Generation ALTC Project

The COAL FACE Principles for Creating Distributed Learning Environments

- Research
- Professional development

www.coalface.org.au

The 3G Essentials

Getting ACCESS

Getting CONNECTED

Getting COMFORTABLE

The COAL FACE Principles for Creating Distributed Learning Environments

The power of the COAL FACE Principles lies in creating connected communities in multi-campus, multi-modal, dispersed and changing environments

Comfort: A virtual or physical environment that creates a physical and mental sense of ease and well-being, is accessible, stable and comfortable. Human interaction is prioritised, personal and generates a sense of ownership. Being comfortable in the environment also relates to skills and competence in operating and interacting with the facilities including technology.

Aesthetics: Recognises the atmosphere of the learning environment that make it pleasurable to spend time in the physical and virtual learning spaces. Aesthetics include the features of the built, natural and virtual environments being functional, user-friendly and working in harmony, with fitness for purpose.

Flow: The connectedness learners feel when the components of the learning environment are in harmony and synchronised. These include engagement and communication with others in the learning environment and the design of the learning experience, the continuity and movement between learning spaces: on-campus, virtual, home and work.

Equity: Consideration of needs relating to cultural and physical differences; an equitable learning experience where the mode of delivery ensures that no groups are disadvantaged and that all have equal access to resources, technology and equipment, and that readiness (including digital readiness) for varied modes of learning is assured for students and staff.

Blending: Demonstration of the purposeful integration of a range of face-to-face, online, mobile, distance, social and other technology enhanced learning activities across physical and virtual learning environments and spaces to enact the curriculum.

Affordances: The possibility for activity that the learning environment provides users. Learning activities supported by spaces (classrooms, virtual spaces, peer to peer learning spaces, informal spaces) and physical assets (type of furniture, technology, videoconferencing etc.) facilitate effective independent learning, group work, lectures, online tutorials, practical experience and social connections.

Repurposing: Refers to a flexible learning environment where learning spaces - physical and virtual - can be adapted to more than one learning purpose. Repurposing occurs when a learning space or learning activity has multiple uses and there is reusability in the design of learning activities and resources.

Spaces Beyond the Edges

Orpheus Island Field Station

Daintree Rainforest Observatory

SPACE — Unstructured ⟷ Structured

Top labels (left to right): Park/Garden Landscape, Gym, Bar, Social Learning Spaces, Faculty Community, Specialist spaces, Collaborative Teaching & Learning space, Lecture Theatre

Bottom labels (left to right): Home, Pool, Cafe, Art Museum, Library, Peer to Peer Learning Spaces, Seminar, Active Learning Space (next generation lecture theatre)

Community groupings:
- City Community Networks
- School & Staff Cohort
- Campus Community
- Campus & Interdiciplinary Networks
- Library support

Learning Modality
- Didactic
- Active Learning
- Feedback
- Reflective