What has STEM got to do with Native Title?

Rod Kennett, Questacon - National Science and Technology Centre Peter Radoll, University of Canberra











- 500 000 visitors per year
- Local, regional and national outreach programs
- Media and communication networks
- 150 seat performance theatre
- TV and broadcast quality studio
- International reputation and connections





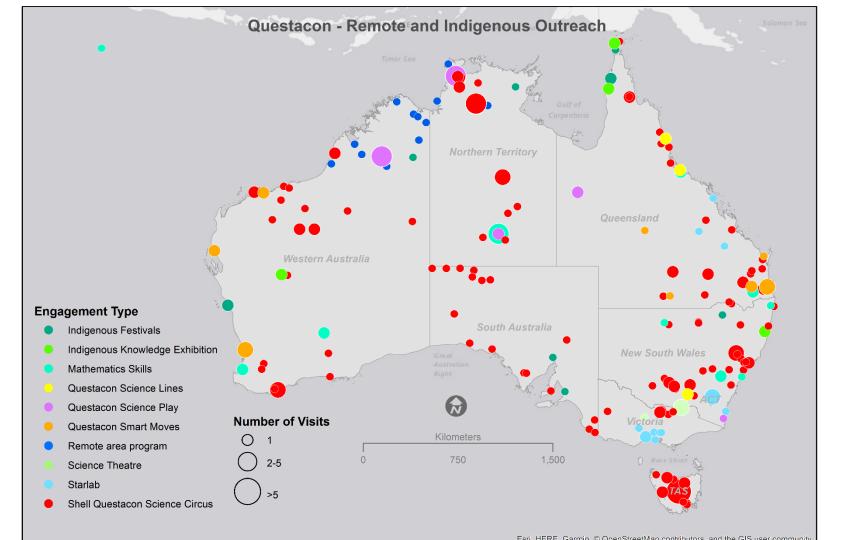






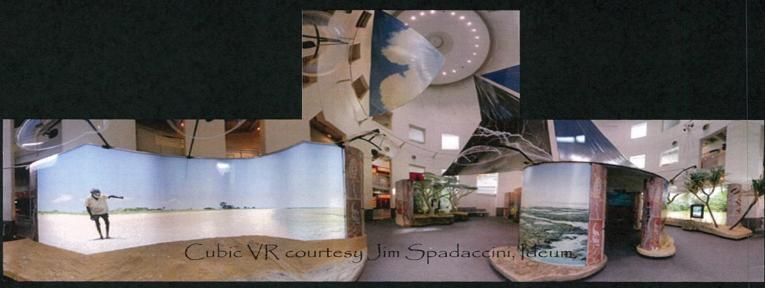












Burarra Gathering exhibition of Indigenous knowledge is now at the Queensland Museum



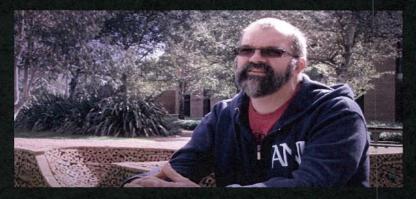
Indigenous scientist role models



Leanora Laughton - tour guide at the Alice Springs Desert Park

Bradley Moggridge - program manager of the NSW Aboriginal Water Initiative and a nominee for the inaugural Science Deadly Awards category for 2013





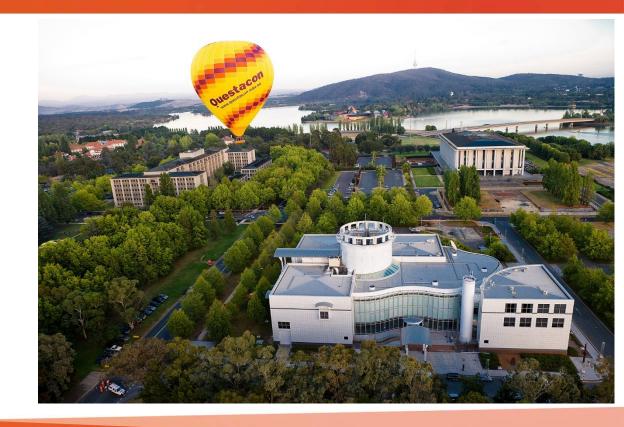
Peter Radoll - Associate Professor in Information Technology

Mikaela Simpson - intern at CAAMA Radio which broadcasts from Alice Springs across the NT, SA, Victoria and NSW



Moving forward...

Indigenous presence in our programs and exhibitions











Play Science on Country Video











Moving forward...

- Indigenous presence in our programs and exhibitions
- A platform for Indigenous STEM leaders











"Indigenous Agency" - Indigenous led organisations with mandate and capacity to identify, promote, resource and deliver Indigenous priorities, goals and aspirations.











ECONOMIC DEVELOPMENT AND EMPLOYMENT

- Indigenous Chambers of Commerce
- IBA, ILC, Supply Nation
- Over 3000 ORIC-registered Indigenous corporations
- Indigenous-led entrepreneurial and STEM initiatives - accelerators, innovation programs, digital tech training, community platforms

SAFETY, COMMUNITY **WELL-BEING AND** CHILD PROTECTION

- A national Indigenous legal services peak body, community-controlled legal services in all states and territories
- Child protection state peaks Indigenous housing state peaks
 - **HEALTH**
 - 140+ Aboriginal Community **Controlled Health Organisations**
 - Regional alliances
 - Industry representative bodies for Indigenous health professionals



INDIGENOUS AGENCY



INDIGENOUS RESEARCH

- 2 national peak research bodies
- Centres

RECOGNITION AND IDENTITY

- A National Congress (approx 9,000 indiv and 150 org members)
- National reconciliation movement
- National advocacy bodies and peak body alliances



CONNECTION TO COUNTRY

- Native Title Organisations 170+ PBCs/RNTBCs, 10+ NTRBs/ NTSPs
- LALCs KLC, CLC, NLC
- Indigenous Rangers
- 75 Indigenous Protected Areas
- Joint management arrangements
- Indigenous-led land and sea management orgs and partnerships



CONNECTION TO CULTURE

- · Regional peak bodies and alliances across artforms
- Regional and local Indigenous language centres, theatre and dance companies, art centres
- · Indigenous media associations, broadcasters and remote media orgs
- · Indigenous tourism state peaks -
- **Tourism Operators Councils**

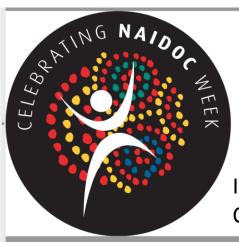


LEARNING AND

- Indigenous Education Consultative Groups in each state and territory
- 42 University Indigenous Units/Research Centres
- Indigenous RTOs and training providers



- 42 University Indigenous Units/Research
- A National Indigenous Research Network



BECAUSE OF HER, WE CAN!

8-15 JULY 2018

Indigenous Women in Science Panel Questacon - the National Science and Technology Centre

Indigenous Science Forum Questacon - the National Science and Technology Centre

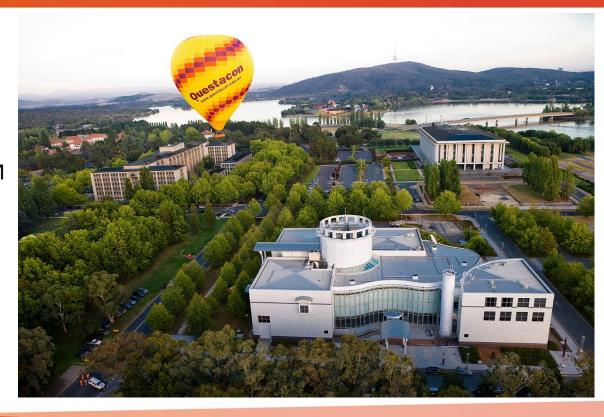






Moving forward...

- Indigenous presence in our programs and exhibitions
- A platform for Indigenous STEM leaders
- National outreach and community engagement in STEM













STEM education is the learning of science, technology, engineering and mathematics in an interdisciplinary or integrated approach. Students gain and apply knowledge, deepen their understanding and develop creative and critical thinking skills within an authentic context. It may include inquiry and project-based learning.

A vibrant capacity in science, technology, engineering and mathematics (STEM) is pivotal to increasing our nation's productivity.

NSW Department of Education









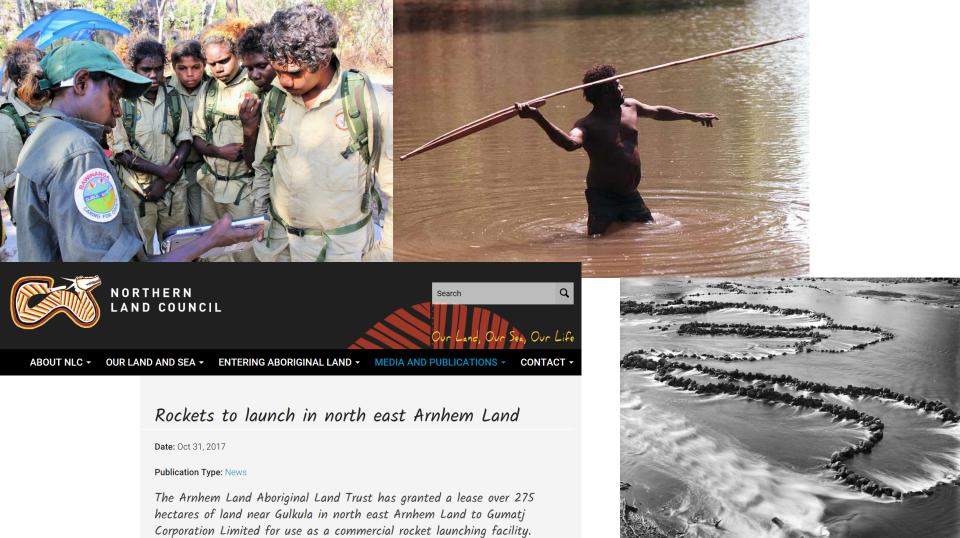
"Extraordinary technological change is transforming how we live, work, communicate and pursue good ideas. We need to embrace new ideas in innovation and science, and harness new sources of growth to deliver the next age of economic prosperity in Australia." - National Innovation and Science Agenda, 2018

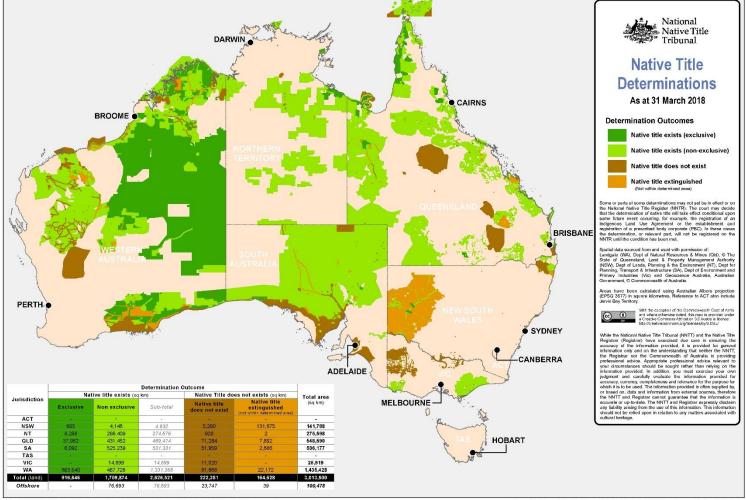


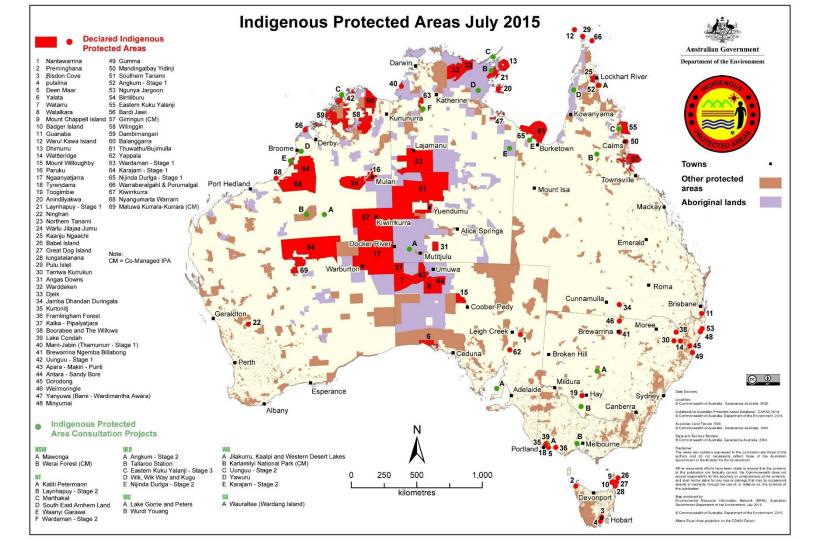












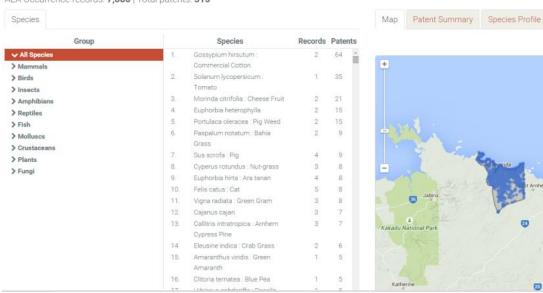






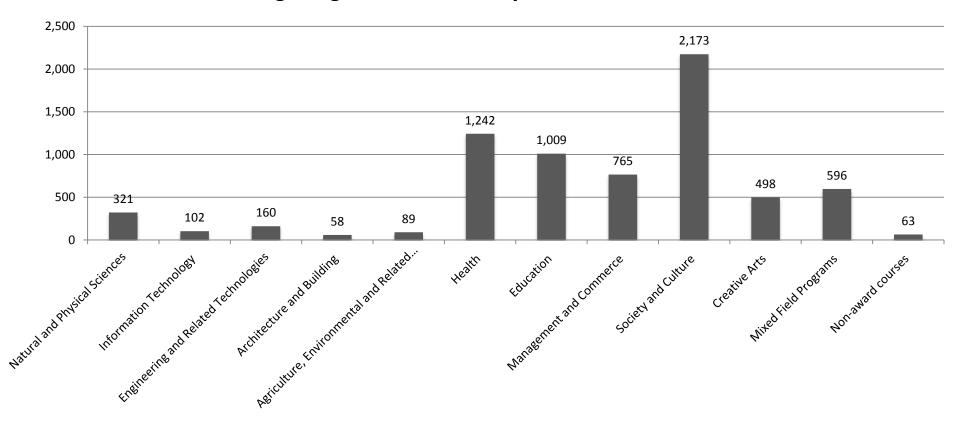
Region name: Djelk

ALA Occurrence records: 7,880 | Total patents: 315

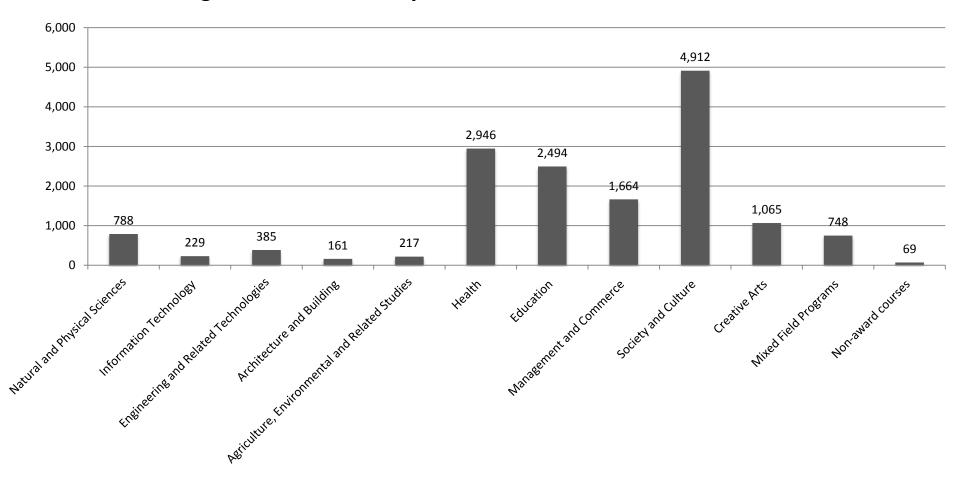




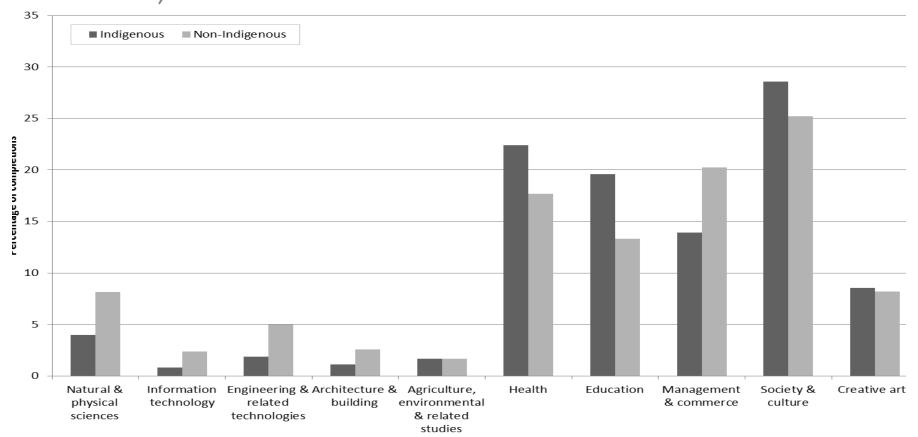
All commencing Indigenous students by broad field of education - 2014



All Indigenous Enrolments by broad field of education - 2014



Award completions by field of study by Indigenous status, Australia, 2010–12



Challenges

- Lack of understand of STEM education
- Perceived lack of Indigenous role models growing number of non-Indigenous researchers
- Lack of mathematics in School
- Time on task impact of cultural programs, tutoring programs, time out of class.
- The way we "market" university to schools and students
- Link between STEM and Indigenous cultures

If you would like to talk about Questacon and STEM engagement...

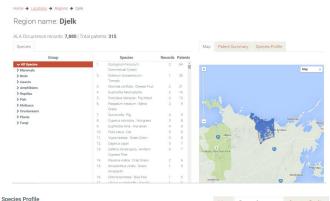
Rod Kennett

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Data & Knowledge - connect









Australian Government

IP Australia



Morinda citrifolia based antifungal formulations and methods

Common

Occurrence records

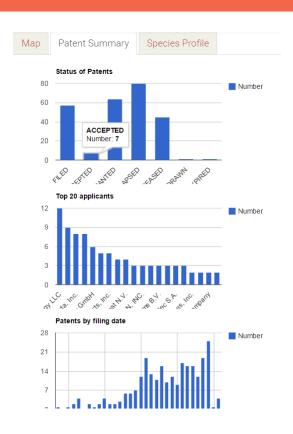
Patent count:

smoking cessation

Patent List

Patents mentioning a species





Species Profile

Name: Morinda citrifolia

Common Cheese Fruit name:

Occurrence 2 records:

Patent count: 21



Patent List

Chewable vehicle for mouth absorption

Chemosensory receptor ligand-based therapies

A composition for buccal absorption of nicotine for the purpose of smoking cessation ...

Composite particles having an antioxidant-based protective system, and topical compositions comprising the same ...

Morinda Citrifolia-Based Formulation 5-Lox and 15-Lox

Method of manufacturing a mabe pearl

Morinda citrifolia based antifungal formulations and methods

