

Forestry Education in Australia: People change, does education?

The Fenner School of Environment and Society
Associate Professor Cristopher L. Brack
Cris.Brack@anu.edu.au



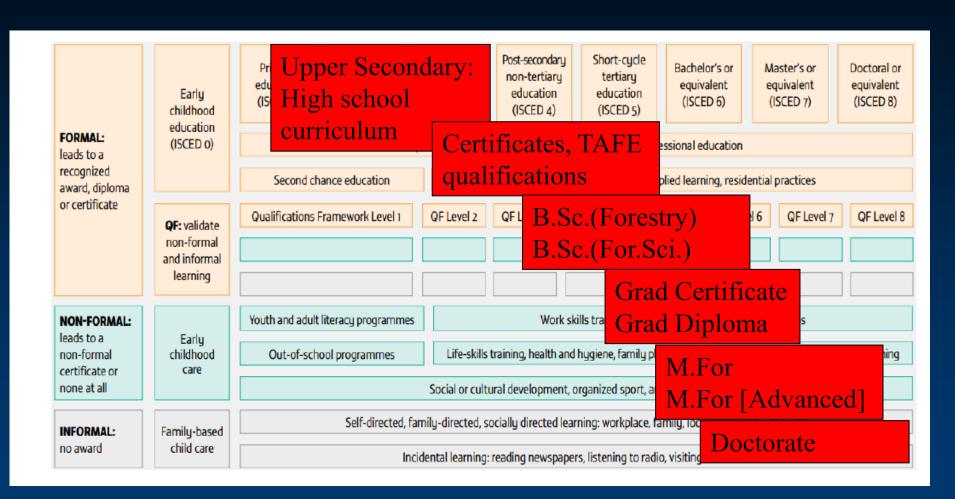
Value of education

	Individual/family	Community/society
Monetary	Higher probability of employment Greater productivity Higher earnings Reduced poverty	Higher productivity More rapid economic growth Poverty reduction Long-run development
Nonmonetary	Better health Improved education and health of children/family Greater resilience and adaptability More engaged citizenship Better choices Greater life satisfaction	Increased social mobility Better-functioning institutions/service delivery Higher levels of civic engagement Greater social cohesion Reduced negative externalities

Source: World Bank 2018, Table 1.1



Not just one level of education



Source: UNESCO 2016, Figure 1.1



But even more: Great Expectations

Education is recognized as the fundamental tool to promote the transformative behavioral change necessary to address contemporary environmental and sustainability challenges... (D. Yao Mfor)





But there are some who disagree

The aim of public education is not to spread enlightenment at all; it is simply to reduce as many individuals as possible to the same safe level, to breed a standard citizenry, to put down dissent and originality (H.L. Mencken)

Anyway, numerous studies have shown that knowledge alone is poorly correlated with pro-environmental behaviour (e.g. Carmi et al. 2015, Heeren et al. 2016).



..."we want is more learning in schools and less activism in schools"





Sometimes problem is too "big"

- (P.Nykeil M.For) The management of wicked problems requires new forms of thinking that escape the limitations of the conventional Western Scientific Tradition...
- Several new forms of thinking have evolved over the past few decades, with different strengths, but only transdisciplinary thinking goes far enough to address wicked problems...
 - develop critical worldview, encompassing critical thinking, multiple perspectives, complexity and reflexivity.
 - communicate that worldview to others, including complexity and stakeholder engagement
 - accept and integrate multiple worldviews to generate new insights



Multiple views

- Student: Academic: Student: Academic...
 - Master : Apprentice : Master : Apprentice...
- Individual : society:...
 - Gender
 - Age
- Nation to Nation
- Dynamic





From and to students

- New technologies to teach about/with/for:
 - Information Technology, fibre based industry, energy, industry, geographic information systems (GIS), cheap micro-sensors
- Increasing demand for vocational and just-in-time education;
- "Edutainment"
- Internationalization
- Call for greener economies







Nation to Nation – world views



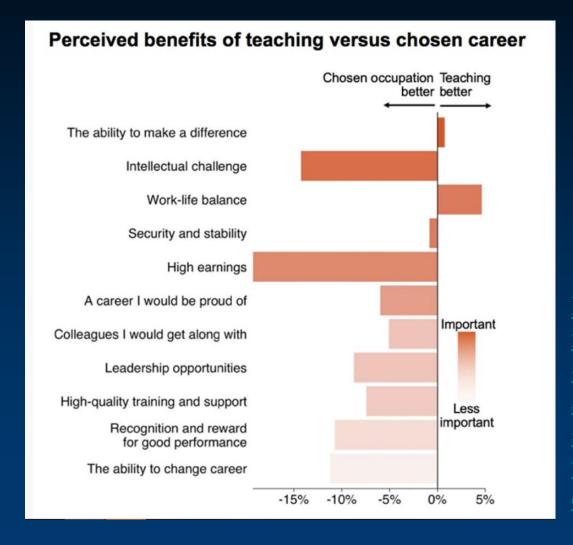


Pedagogy evolves





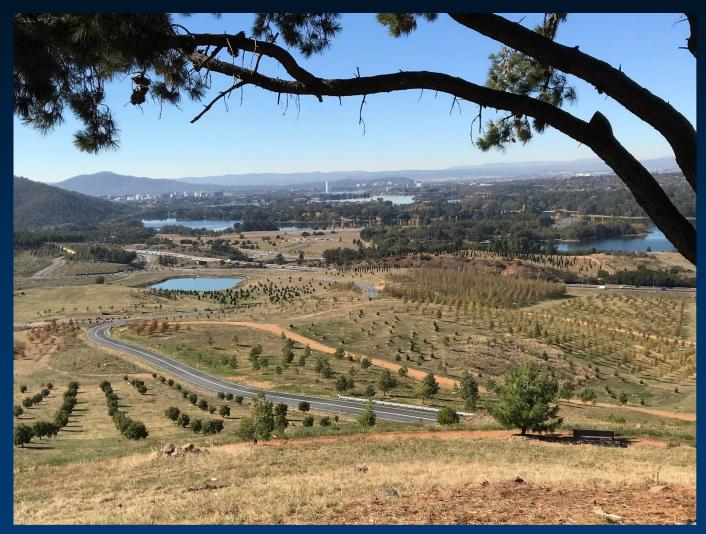
Here's how to get our top students to become teachers foresters



https://www.abc. net.au/news/2019 -08-26/why-highachievingstudents-rejectteachingcareers/11447172

- The solution to every important problem we have contains a spot where a tree should be (The Brack Mantra)
- Our education system must help us find that spot; and ensure the trees are there; and contribute throughout their entire life-cycle
- We need more pro-forestry citizens/students
- It'll take more than one type of learning institution or world view to make that happen.





Brack, IFA 2019.