





Exploring the Ecology of Teaching & Learning in Higher Education Norman Jackson assisted by Eleanor Hannan

Prior to the conversation it would be helpful if you could create a short (~200 word) narrative or annotated sketch of a teaching /learning situation in which you have tried to encourage students to use their creativity. This will provide a resource that can be used to evaluate the ecological framework during the session.

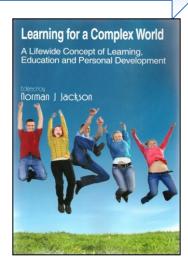


Our learning, development, achievement (including our creativity) are distributed through all parts of our life

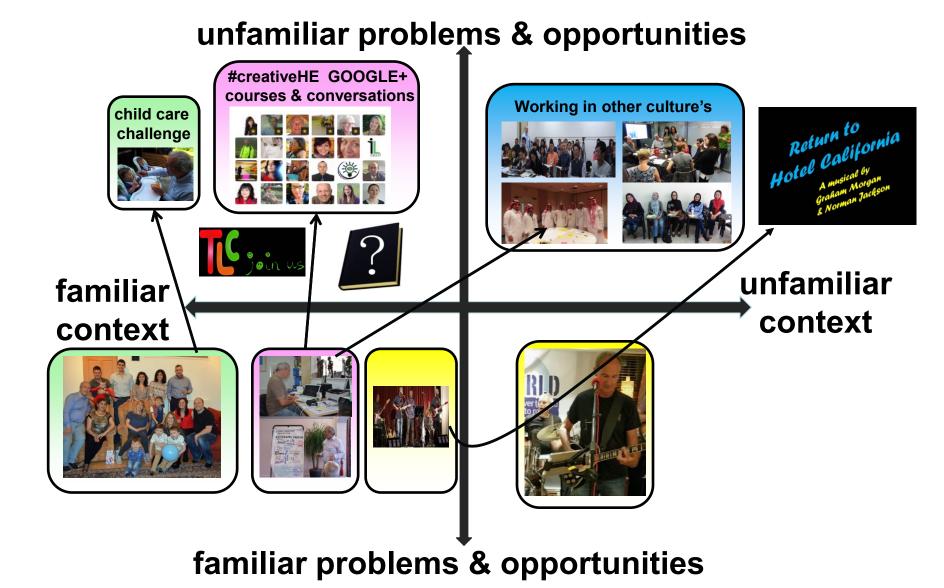


LIFEWIDE LEARNING >>>>>Now, All, Personal & Significant

Formal /non-formal	&	Informal
Intended	&	Unanticipated
Need	&	Interest
Directed	&	Self-directed
Planned	&	Emergent
Extrinsic Motivation	&	Intrinsic Motivation



Sites of greatest affordance for learning, creativity and other achievements are contexts that are unfamiliar or unknown to us



All living things inhabit an ecosystem





an ecosystem comprises the complex set of relationships and interactions among the inhabitants, resources and habitats of a particular environment for the purpose of living

People inhabit different eco-social systems (Jay Lemke)



office ecosystem in business ecosystem



car mechanics ecosystem in formula car racing ecosystem



surgical ecosystem in hospital ecosystem in health care ecosystem



architectural design ecosystem in building and construction ecosystem

An eco-social system comprises the complex set of relationships and interactions among the human inhabitants, resources and habitats of an environment for the purpose of living > producing, creating, learning, developing and achieving (and more....)

Within an educational ecosocial system like a school, teachers create ecologies within which pupils learn, develop & achieve.

What are the components in this ecology for learning?



What are the components of this ecology for learning?

context early years school culture PEOPLE - teacher, pupils, TA's and pupils parents

PURPOSE – learning about things/ learning how to learn /values & social stuff

SPACES

Physical – classroom/ school Social Emotional Intellectual Creative

RELATIONSHIPS

teacher/TA's – pupils pupils-pupils teacher – parents parents- children with subject, environment, materials, activities



RESOURCES (knowledge, tools, materials, technologies) teacher's/ TA's knowledge, pupils' experiences, books, learning aids, posters/pictures, musical instruments, writing materials, pupils' work, internet

AFFORDANCES

teacher creates
affordance for learning
& enables pupils to see
and use opportunities

CONTENT

teacher determines what is to be learnt

PROCESS

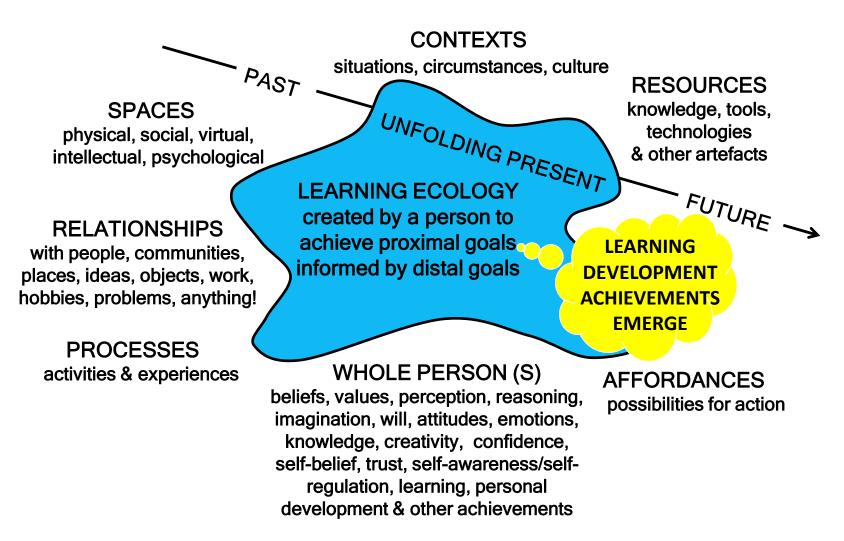
teacher determines how content is learnt through activities

OUTCOMES

teacher determines
what has been achieved
through observation,
questions & assessment

LEARNING ECOLOGY CONCEPTUAL MODEL

can this framework be applied to any learning context?



Jackson (2016) Exploring Learning Ecologies https://www.lulu.com/

An ecological perspective on personal creativity



Personal creativity is

'the emergence in action of a novel relational *product* growing out of the uniqueness of the individual on the one hand, and the materials, events, people, or circumstances of his life' *Carl Rogers* (1960)

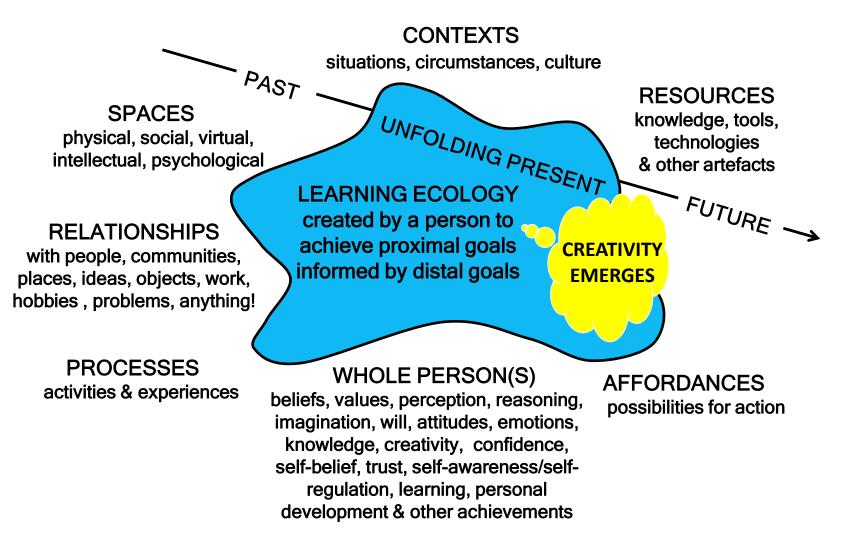
NOTES product = ideas, material or virtual objects, practices, performances, relationships, processes and more.....

originality emerges from our uniqueness as individuals, relating, caring and thinking about things in our contexts, in the ways that only we can

creativity is often the result of making a third 'thing' from two existing things or ideas, rather than making something from nothing 1+1=3! McWilliam and Taylor (2016)

LEARNING ECOLOGY CONCEPTUAL MODEL

can this framework be applied to any learning context?



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Higher Education teachers create ecologies for students' learning & development within the institutional learning environment (ecosystem)

CONTEXT HE course / culture

PEOPLE teacher & students PURPOSE – learning a subject/skills learning to think/behave like.....

SPACES physical virtual intellectual psychological

RELATIONSHIPS

teacher -students students & peers students & others who support their learning. With

subject, resources/tools, spaces, activities & problems

RESOURCES (knowledge, tools, artefacts, technologies) what has been learnt thro' teachers' embodied knowledge, students knowledge & experiences, explicit knowledge in books/ articles, internet resources



AFFORDANCES teachers create opportunities for learning. Students must utilise these affordances to benefit

CONTENT & PROCESS teacher determines what content & how/ when it is learnt

OUTCOMES

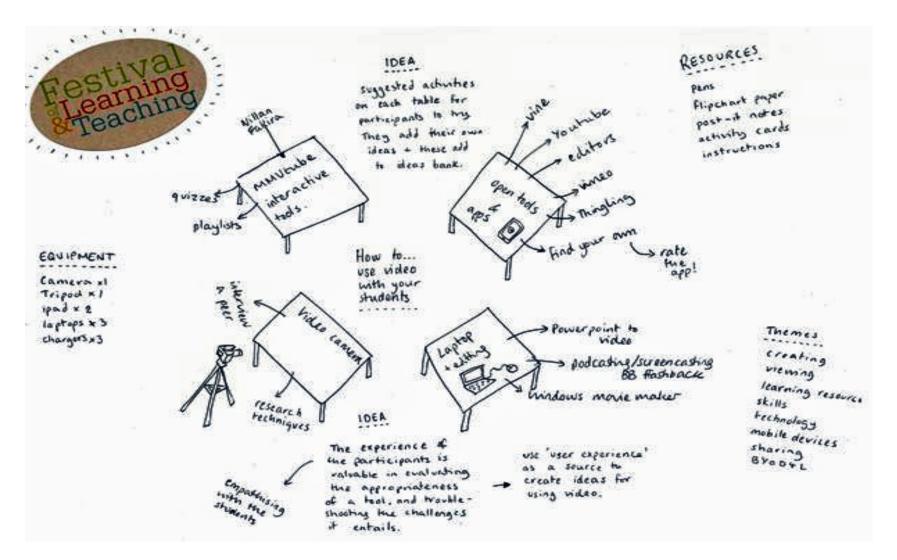
teacher determines observation, questions & assessment



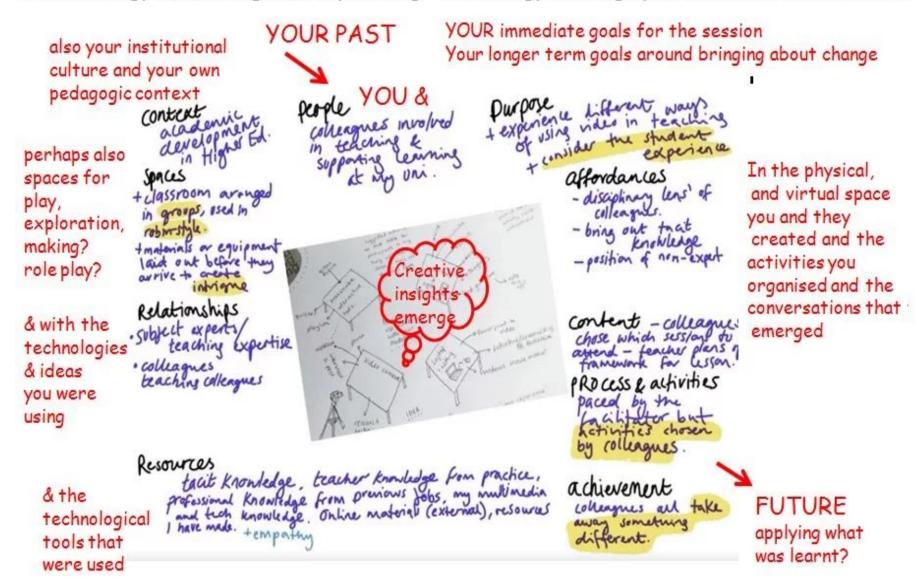
Eleanor Hannan (MMU Centre for Learning and Teaching)

Interpreting my pedagogic practices through the lens of creative learning ecologies. Creative Academic Magazine 7B http://www.creativeacademic.uk/magazine.html

https://www.youtube.com/watch?v=0lgEQNAHXLc&feature=youtu.be



Ellie's ecology for learning and empathising - an ecology with high practical/emotional content



5 min reflective activity

Q1 Can the learning ecology framework be applied to your own narratives / experiences of trying to encourage students to learn and use their creativity?

If you haven't prepared a narrative in advance. Think of an experience when you have tried to encourage students' to use their creativity. Sketch out the key elements of your approach and try to see if they can be mapped onto the learning ecology framework in a meaningful way.

Don't worry about completing this activity in 5mins you can share your evaluation after the session at:

https://www.surveymonkey.co.uk/r/6BDWH9K



'in order to understand human development, one must consider the entire ecological system in which growth occurs' (Urie Bronfenbrenner 1994)

ECOSYSTEMS THEORY

The ecological affordance of pedagogy

Pedagogy is more than teaching method, more than curriculum, more than assessment practice. It is all these things, but it is also how they are made into patterns of actions, activities and interactions by a particular teacher, with a particular group of students [in a particular context]

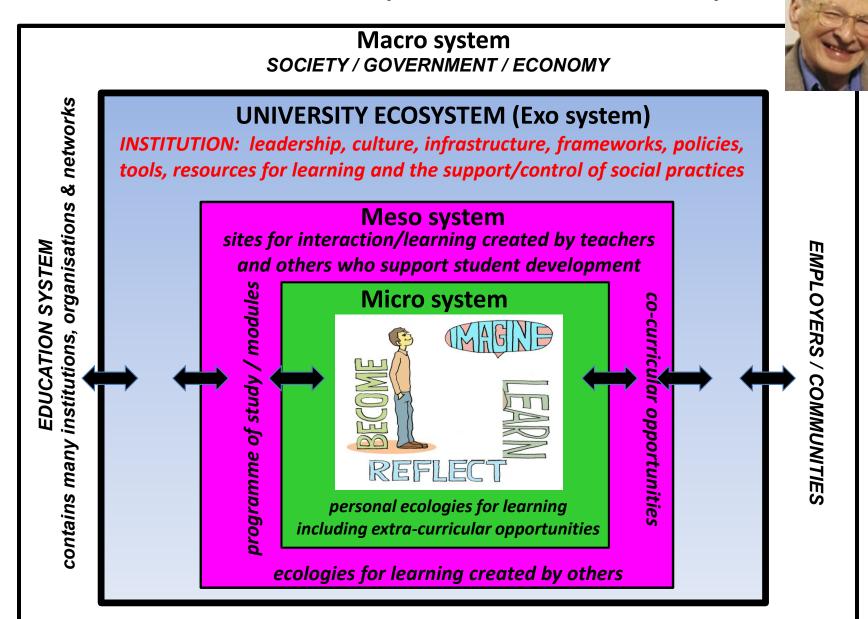
The concept of pedagogy encompasses relationships, conversations, learning environments, rules, norms and culture within the wider social context and may extend beyond school to community and public settings. It takes in the ways in which what teachers and students do is framed and delimited within a specific site, a [cultural and] policy regime and the historical context.

Robin Alexander (2008)

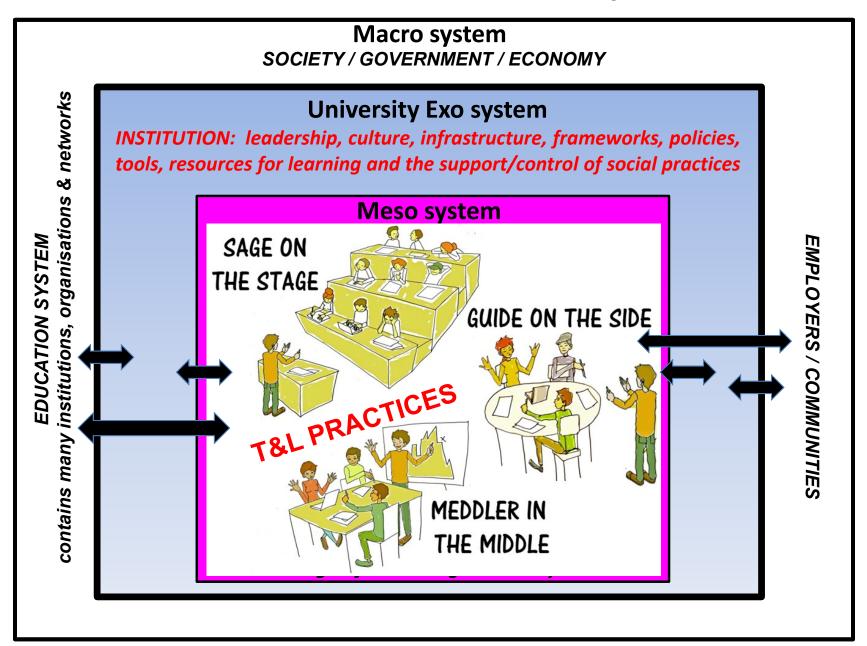
Essays on Pedagogy

London: Routledge

ECOSYSTEM MODEL (Bronfenbrenner 1999)



Pedagogy connects what happens in the classroom to the whole ecosocial system



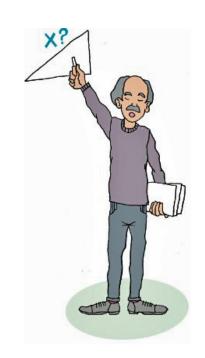


LEARNING TO BE & BECOME.





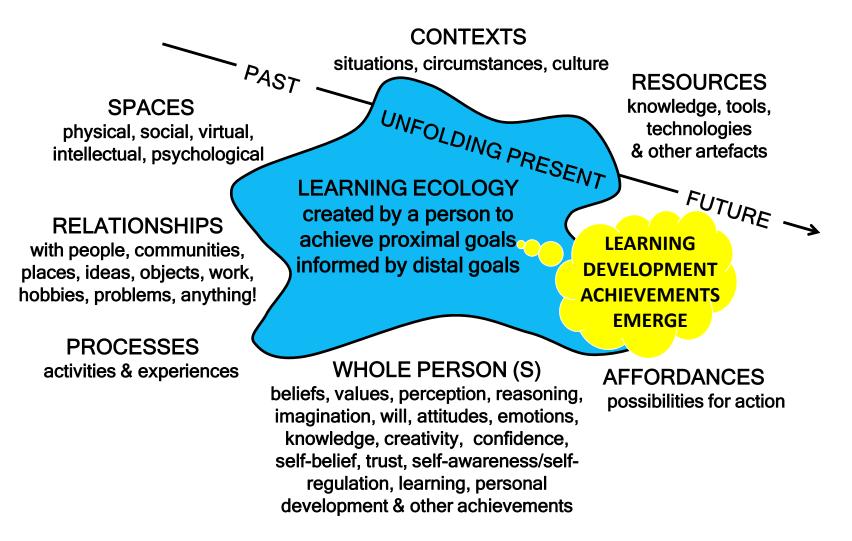
PROFESSIONAL/VOCATIONAL SIGNATURE PEDAGOGIES eg architect, engineer, doctor & lawyer



SIGNATURE
PEDAGOGIES
think like a
physicist,
historian
psychologist
other academic
discipline

LEARNING ECOLOGY CONCEPTUAL MODEL

can this framework adequately describe the complexity and diversity of a HE teachers' pedagogic practices?



Jackson (2016) Exploring Learning Ecologies https://www.lulu.com/

Representation of a teacher's pedagogic practices using the learning ecology framework

RELATIONSHIPS

Between learners & teachers & others who support learning, between people and ideas, spaces and things

PEDAGOGIC CONTEXTS

Curriculum, Discipline, Teaching stance eg 'Sage', 'Guide' 'Meddler', 'Modeller' Problems, Challenges & Opportunities – aims, objectives, intended outcomes, activities, feedback, lectures

CULTURAL CONTEXTS

assessment

Course Team INSTITUTIONAL Disciplinary, ECOSYSTEM Departmental **Institutional**

INSTITUTIONAL participate study **LEARNERS'** engage PROCESS discuss collaborate inquire experiment problem solve demonstrate perform make &

tutorials supervision

mentoring

seminars

TEACHER'S PROCESS

practicals labs fieldwork

make sense

LEARNING

EMERGES

ECOSYSTEM **RESOURCES**

Knowledge, **Technology** Equipment, Materials, Tools & other artefacts Learning support

SPACES

Classroom, labs, studios, theatres, field, social. physical, virtual cognitive/ emotional

AFFORDANCE FOR LEARNING & ACHIEVEMENT

assessment

Provided by teacher/institution Discovered and or created by learners FUTURE?

Do these ideas make sense to you?

Do they make sense in relation to your own pedagogic narrative?

I am looking for practitioners willing to explore these ideas in the context of their own pedagogic practices. If you would like to collaborate by sharing your own pedagogic narrative, please get in touch

Ecologies for Learning A students' perspective

becoming the person you want to be

Ecologies for learning, developing & achieving occur at all scales & in all parts of a students' life

Students' higher education experiences can be visualised as a constellation of ecologies for learning.

Mostly shaped/created by teachers & institution some by students, and some by organisations outside the university

CONTEXT HE course PEOPLE teacher & students PURPOSE – learning a subject, learning to be a.... developing skills

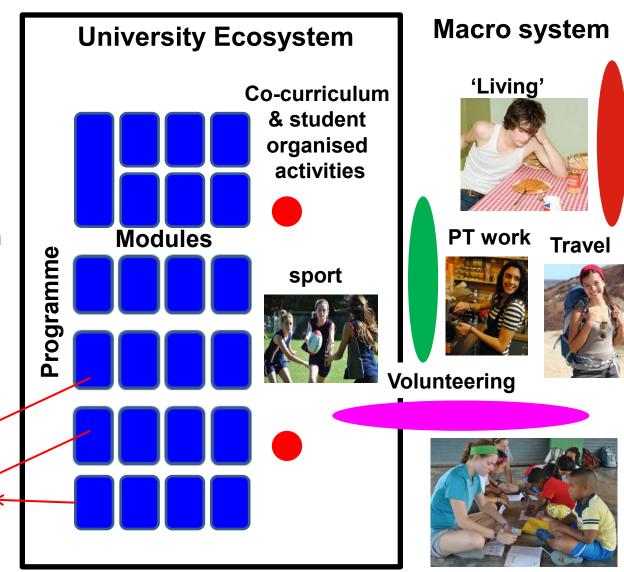
SPACES physical virtual intellectual psychological

psychological
RELATIONSHIPS
teacher-students
students & peers
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RESOURCES (knowledge, tools, artefacts, technologies) teachers' embodied knowledge, students knowledge & experiences, explicit knowledge in books/articles, internet resources

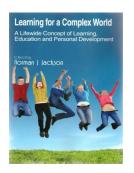
AFFORDANCES
In their courses,
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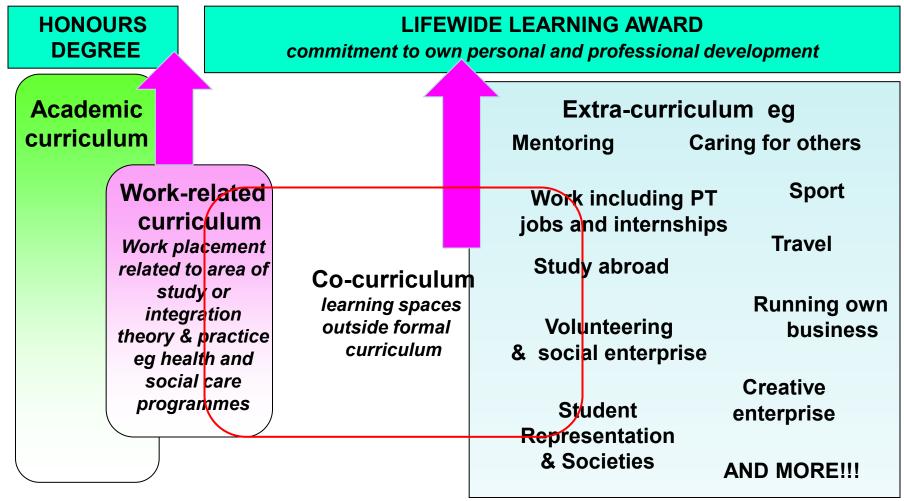
CONTENT & PROCESS teachers determine what content and how and when it is



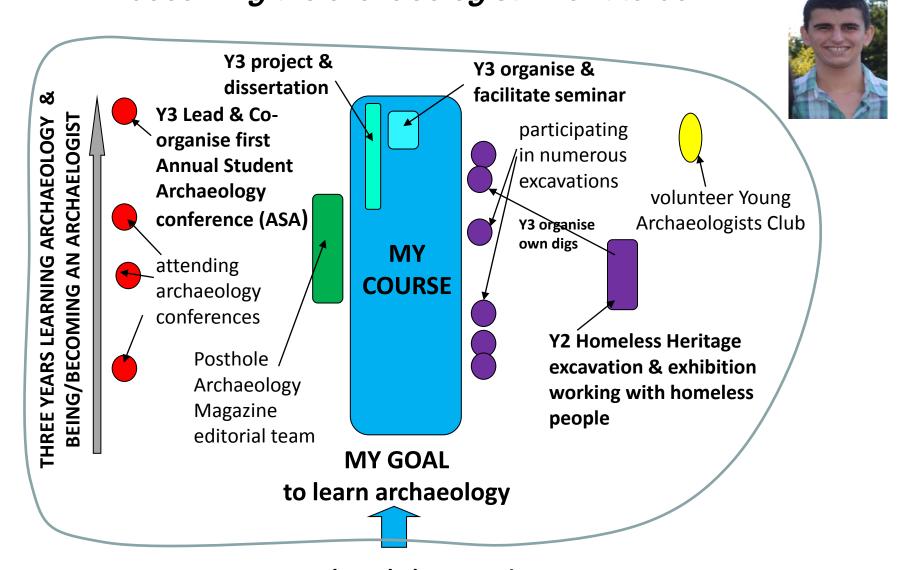
Ecologies for learning occur at all scales & in all parts of a students' higher education experience

To accommodate all the affordances for learning in a students' life we need to adopt Lifewide Curriculum





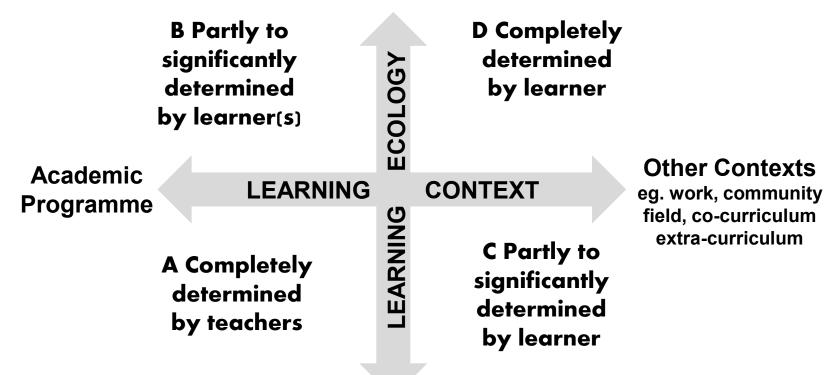
A student's ecologies for learning, developing & achieving 'becoming the archaeologist I want to be'



past knowledge, experience interests and orientations

Conceptual tool for making sense of a students ecologies for learning, developing & achieving



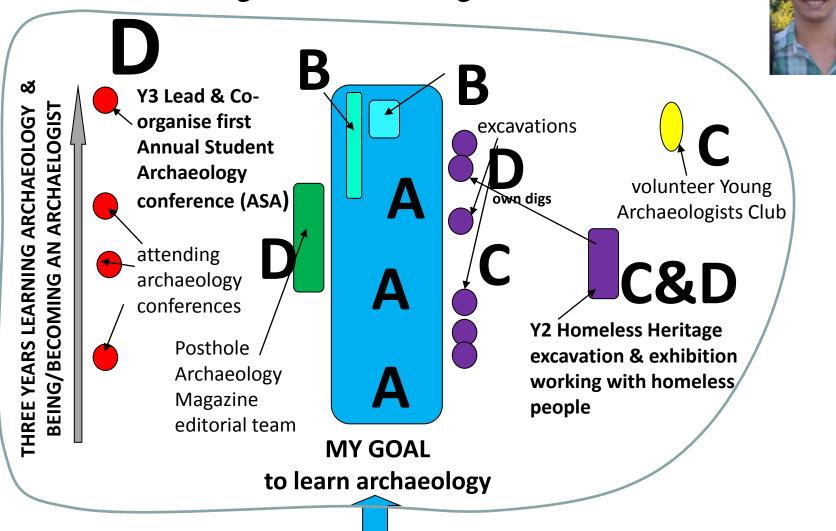


Determined by institution or other external parties

eg a work placement or volunteering organisation

Learning ecology includes goals, affordances, processes, spaces, relationships, resources (knowledge, tools, technologies, mediating artefacts)

Learning ecologies involved in becoming the archaeologist I want to be



past knowledge, experience interests and orientations

Does the idea of viewing learning ecologies from the learner's perspective make sense to you?

How could higher education make use of an ecological perspective on teaching and learning?

I am gathering feedback on these ideas through an anonymous online questionnaire. If you can find the time I would be very grateful for your thoughts. We can provide a link to the results on the TLC website.

You can access the survey at:

https://www.surveymonkey.co.uk/r/6BDWH9K

Thank You



Lifewide Education

http://www.lifewideeducation.uk/
Exploring Learning Ecologies
https://www.lulu.com/

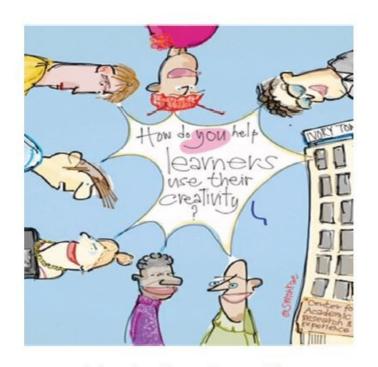


Creative Academic

http://www.creativeacademic.uk/

Exploring Creative Pedagogies

http://www.creativeacademic.uk/creative-pedagogies.html



Exploring Creative Pedagogies for Creative Learning Ecologies



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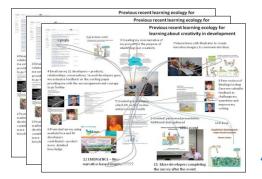
CREATIVE ACADEMIC MAGAZINE Issue 7 From October 2010-2017 http://www.creative.codemic.uk

Presentation and links

http://www.normanjackson.co.uk/tlc.html

My Learning Ecology

PAST



RESOURCES





Workshops eg MMU, Derby, SHU Powerpoint + Handout **Mediating Artefact**



AFFORDANCE RELATIONSHIPS

CONTEXTS



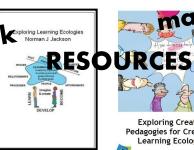
PURPOSES



PROCESS

How I relate/connect/

interact with everything













LEARNING



SPACES





AFFORDANCE RELATIONSHIPS







FUTURE?