Transforming Assessment

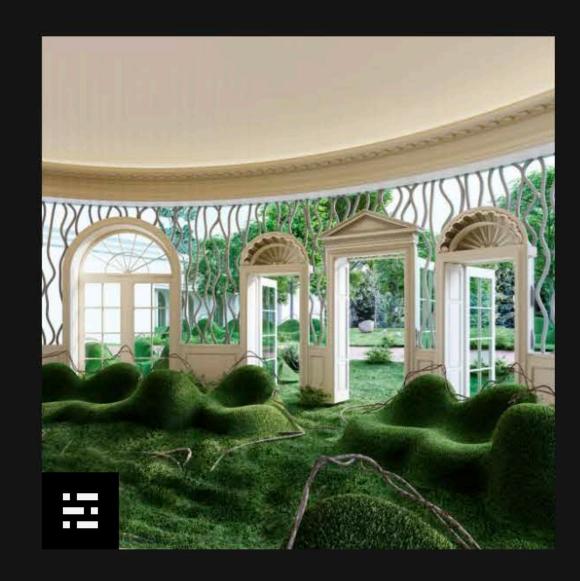
Evolving Practices for Climate Justice in Creative Education

Laura Knight and Monika Gravagno
Central Saint Martins, University of the Arts London





Four action areas

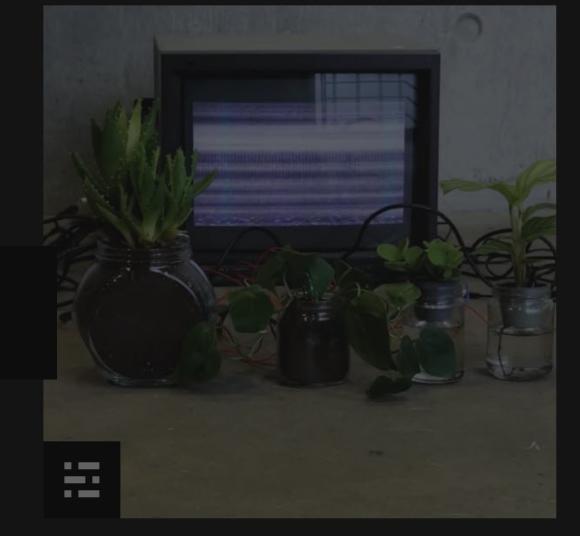


Change the way we teach



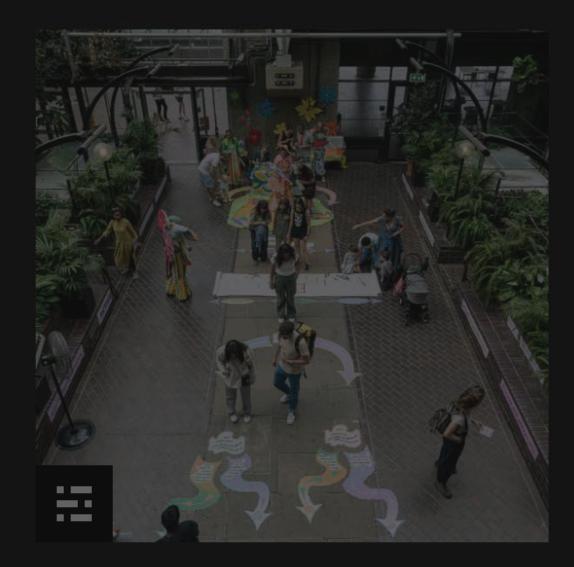


Change the way we research and exchange knowledge



Change the way we operate





Climate Emergency
Network: Changing the
way we work together

 \rightarrow

 \rightarrow



Curriculum Challenges

Integration

Scientific and justice-based knowledge with creative practice

Trott et al., 2023; Waldron et al., 2019; Kinol et al., 2023

Interdisciplinarity

Combining knowledges across disciplinary boundaries

Jacobson, Seavey and Mueller, 2016; McCowan, 2023

Empowerment

Fostering agency, empathy, and hope amid complex, daunting issues

Magrane, 2024; Bartlett et al., 2022; Mcgregor & Christie, 2021; Rolleston et al., 2023

Expectations

Addressing high student demand for meaningful, action-oriented education

Rolleston et al., 2023



Assessment Challenges

Integration

Blending social, ethical, and political content with creative practice

Magrane, 2024; McCowan, 2023

Subjectivity

Lack of clear, standardised criteria for creative and imaginative work

Magrane, 2024; Akhan, Çiçek and Kocaağa, 2022

Diversity

Navigating and assessing diverse perspectives and ethical considerations

McCowan, 2023; Molthan-Hill et al., 2019

Institutional strategy

5 Principles

What are we doing?

Define and guide the work across the institution

Framework

How do we do it?

Supports the embedding of principles in course handbooks through QA processes

Audit

How do we know?

Captures embedding and positions courses on the framework

Framework Scales of Transformation

	Creative Teaching	Curriculum as such	Learning outcomes
Awareness	Learning about	Knowing	Descriptive
Ideation	Learning for	Doing	Integrative
Shift	Learning as	Being	Critical
	D.Williams et al (2018)	Barnett and Coates (2005)	Weller (2016)

Framework Embedding principles

	awareness	ideation	shift
Principles are	about	for	as
Contextualised in the handbook			
Part of a unit or elective			
Assessed in at least one unit			
Assessed in at least one unit at each level			
Part of the course aims and objectives			

Framework Role of assessment

	awareness	ideation	shift
Principles are			
Contextualised in the handbook			
Part of a unit or elective			
Assessed in at least one unit			
Assessed in at least one unit at each level			
Part of the course aims and objectives			

where -- how

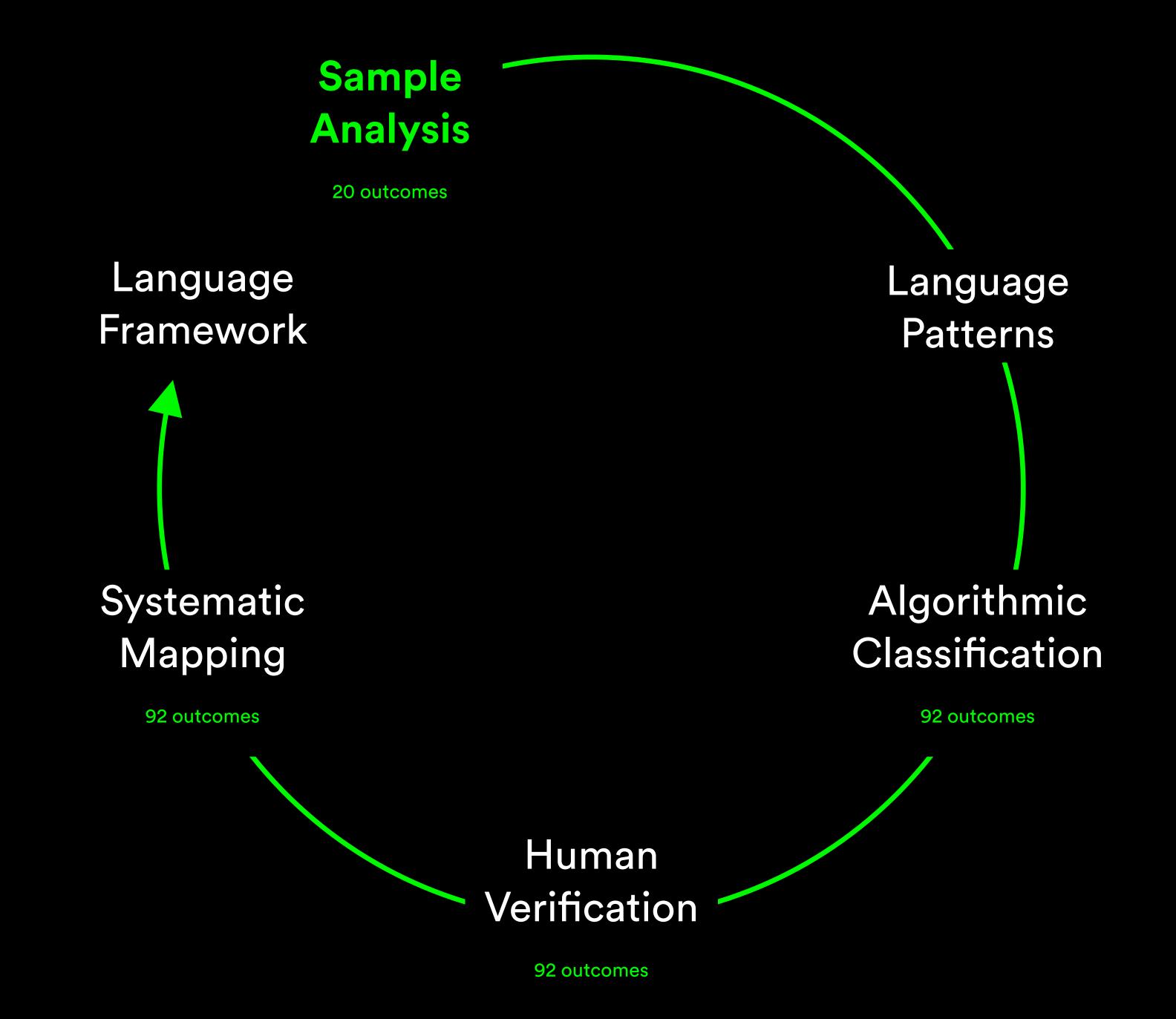




college

6 units

92 outcomes





Analysis Assessment criteria

Realisation 24%

Communication 7%

Knowledge 27%

Process 25%

Enquiry 17%

Analysis Transformation level

Ideation

67%

Awareness 22%

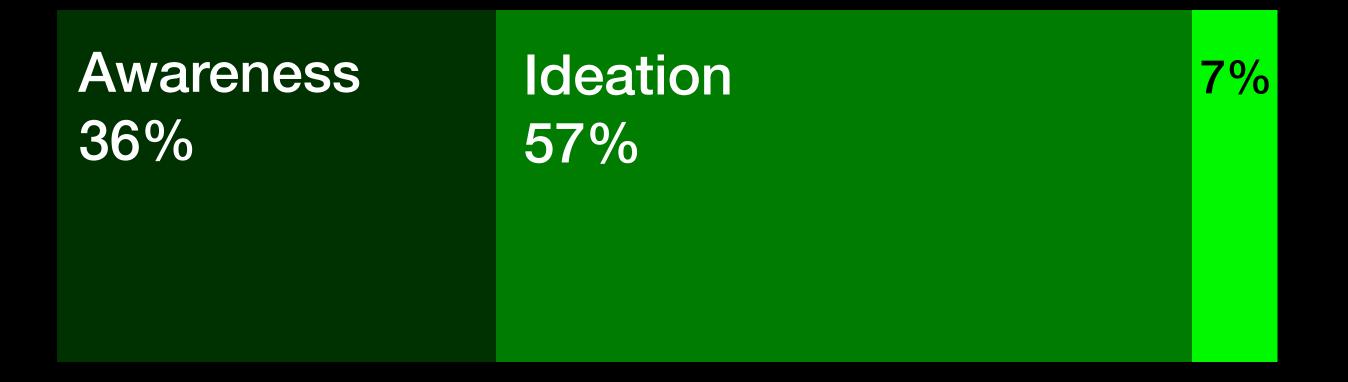
Shift 11%

Analysis Criteria + Transformation

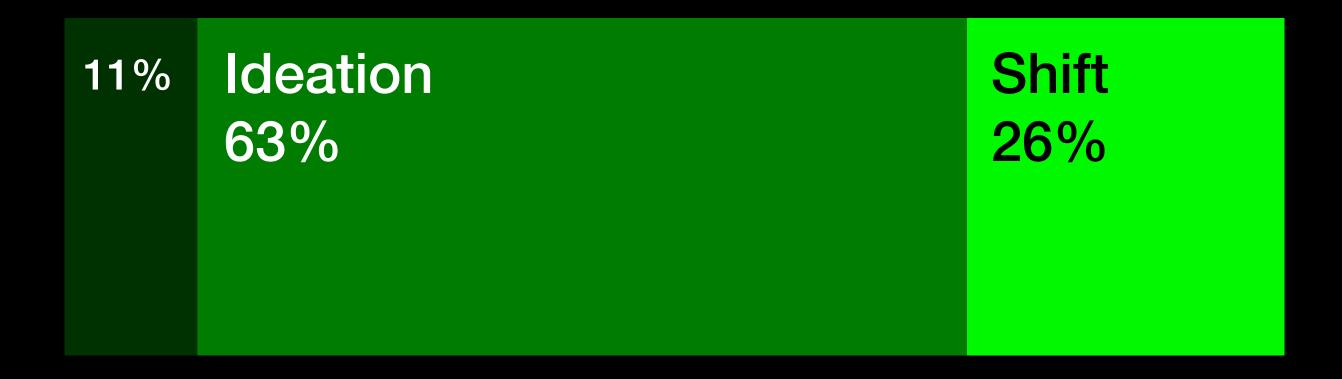
	Awareness	Ideation	Shift
Knowledge	32%	35%	0%
Enquiry	32%	13%	9%
Process	5%	29%	45%
Communication	14%	2%	9%
Realisation	18%	21%	36%

Analysis Academic level

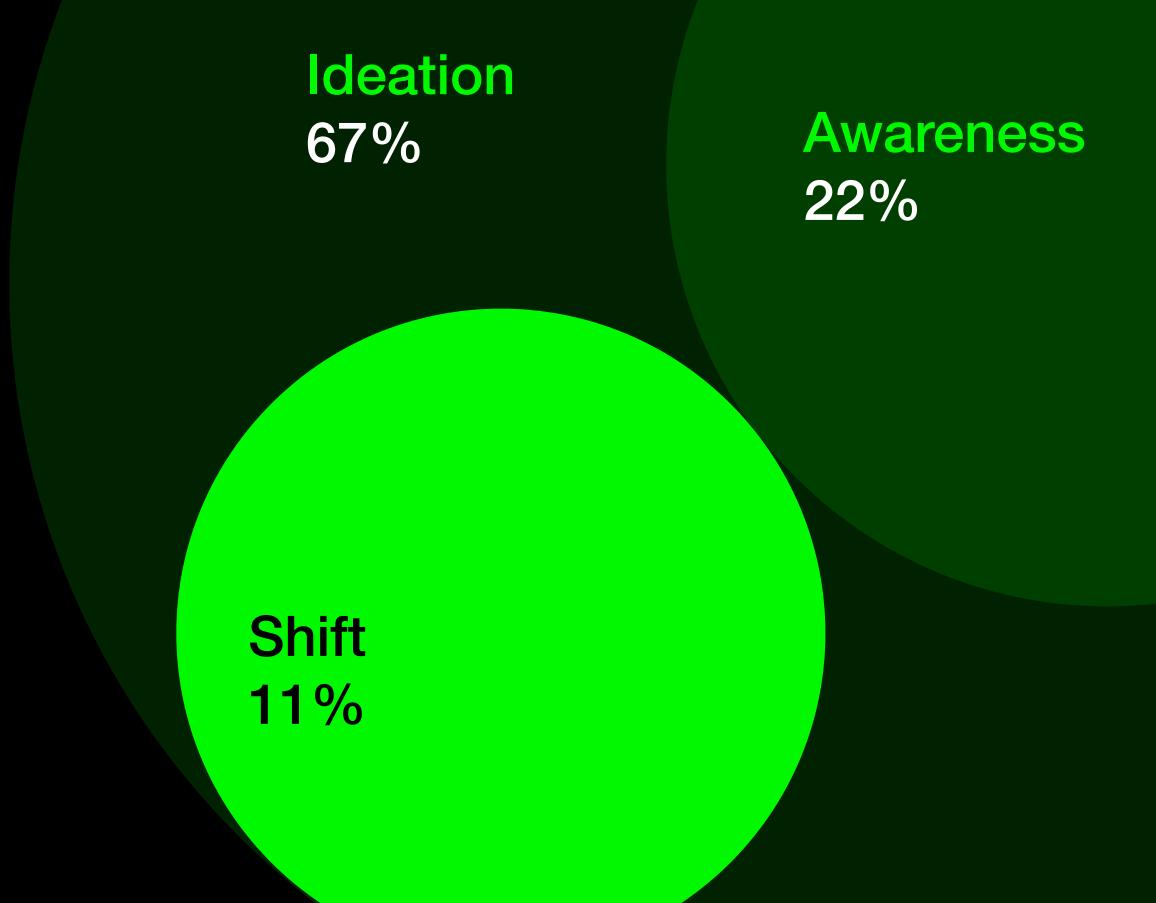
Undergraduate

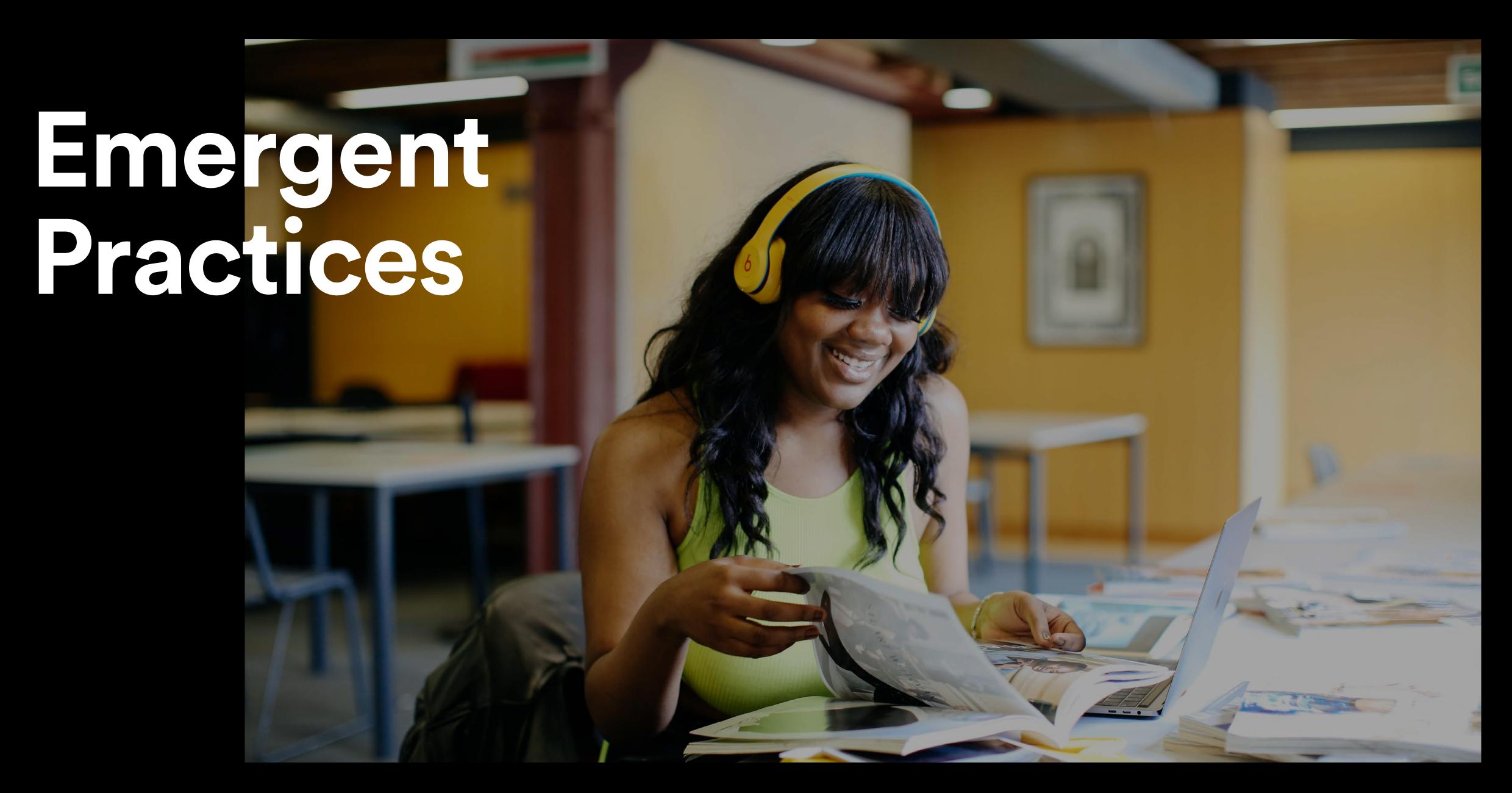


Postgraduate



Analysis Transformation level





Practices Language

	Awareness	Ideation	Shift
Dominant Verbs	Demonstrate (6) Investigate (2), Reflect (2), Analyse (2)	Apply (8) Develop (5), Demonstrate (5) Produce (4), Undertake (4) Integrate	Demonstrate (3)
Language Patterns	"Investigate to inform" "Investigate the emergence" "Demonstrating an understanding" "Reflect on in relation to" "Demonstrate awareness"	"Undertake analysis to support the development of" "Produce that explores, contribute or questions" "Develop and resolve"	"Locate yourself" "Evaluate the potential impact of your practice, on or beyond the discipline" "Take a position" "Test new hypotheses about the role of"
Focus	Understanding, recognition, and investigation, emphasising cognitive engagement	Creation, application, and solutions, emphasising practical engagement.	Integration, identity formation, and consciousness change, emphasising transformation

Practices Demonstrate

Awareness

Demonstrate understanding of key conventions of [disciplinary] processes and an awareness of the ecological impact of your design process

(AC Process)

Ideation

Demonstrate positive resolution in negotiating sustainability values, principles and goals through the process of making

(AC Process)

Shift

Demonstrate an ability to evaluate and critically reflect on one's own practice and its potential societal and or environmental impact

(AC Enquiry)

Practices Outcome complexity

Awareness

Investigate the emergence of social, racial and climate justice as major issues in the [discipline] industry

Ideation

Apply design strategies to create [disciplinary] proposals informed by current social, cultural and environmental challenges

Investigate

+ [noun]

Apply [strategies]

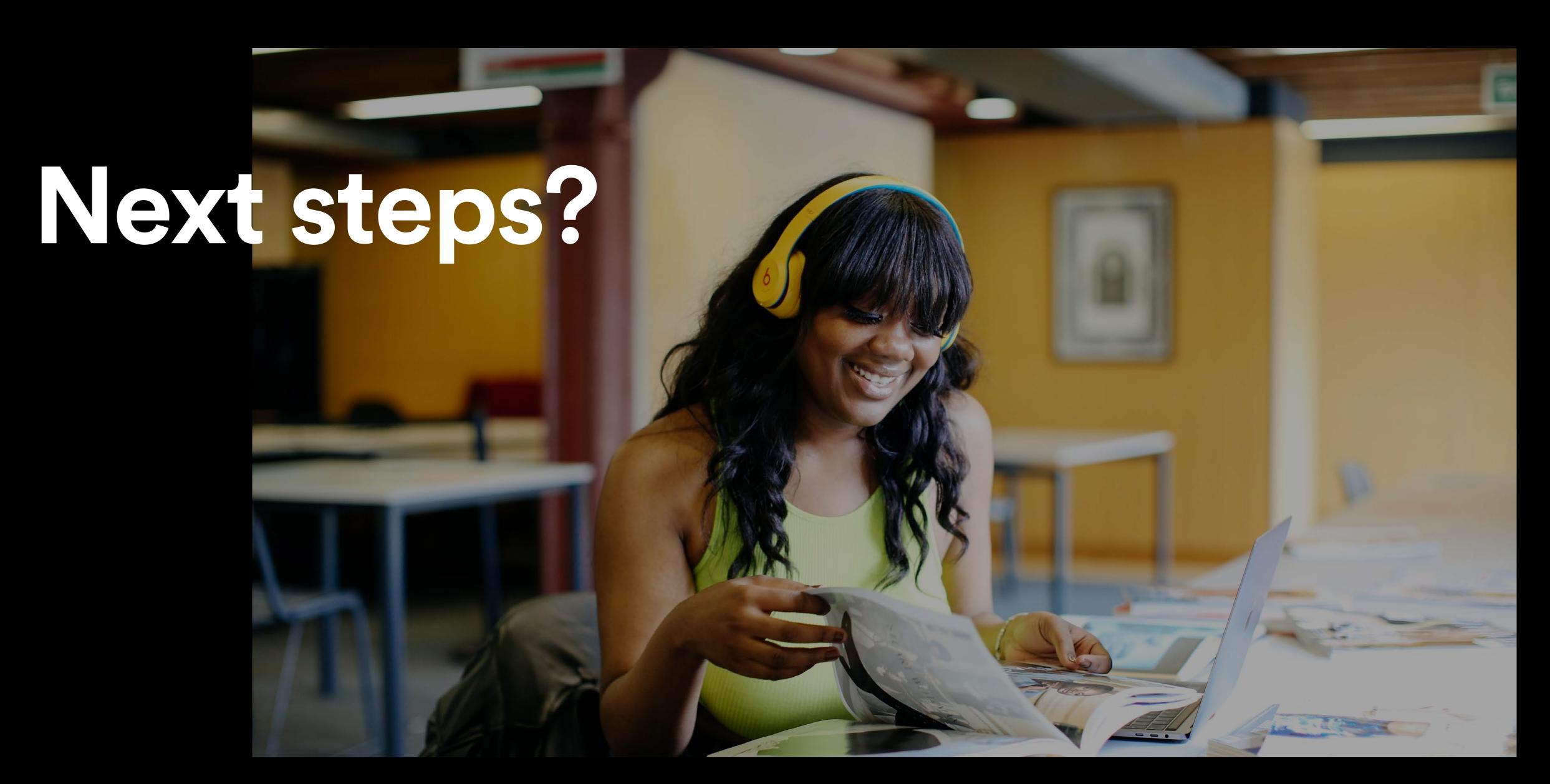
- + to create [outputs]
- + informed by [factors]

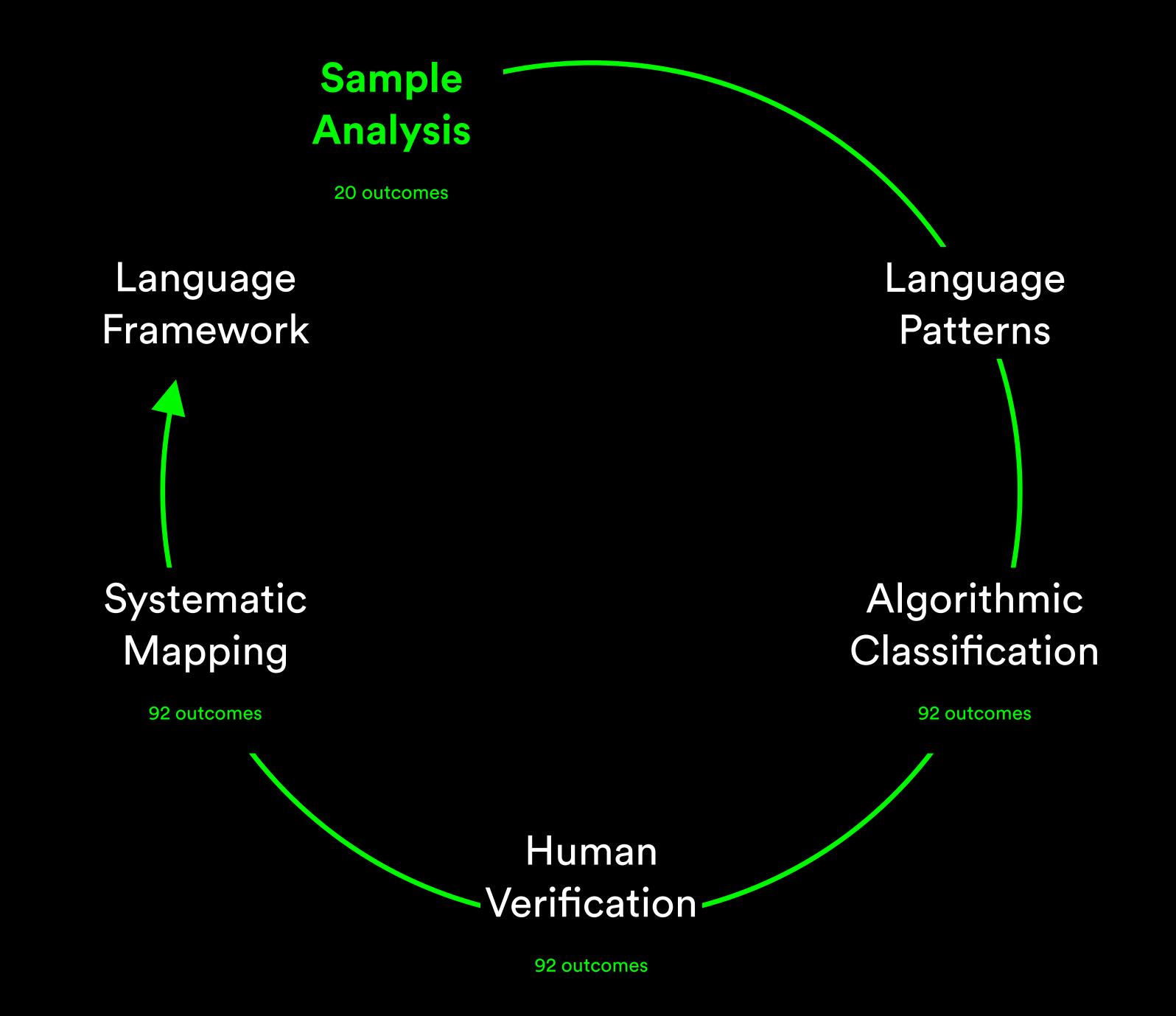
Shift

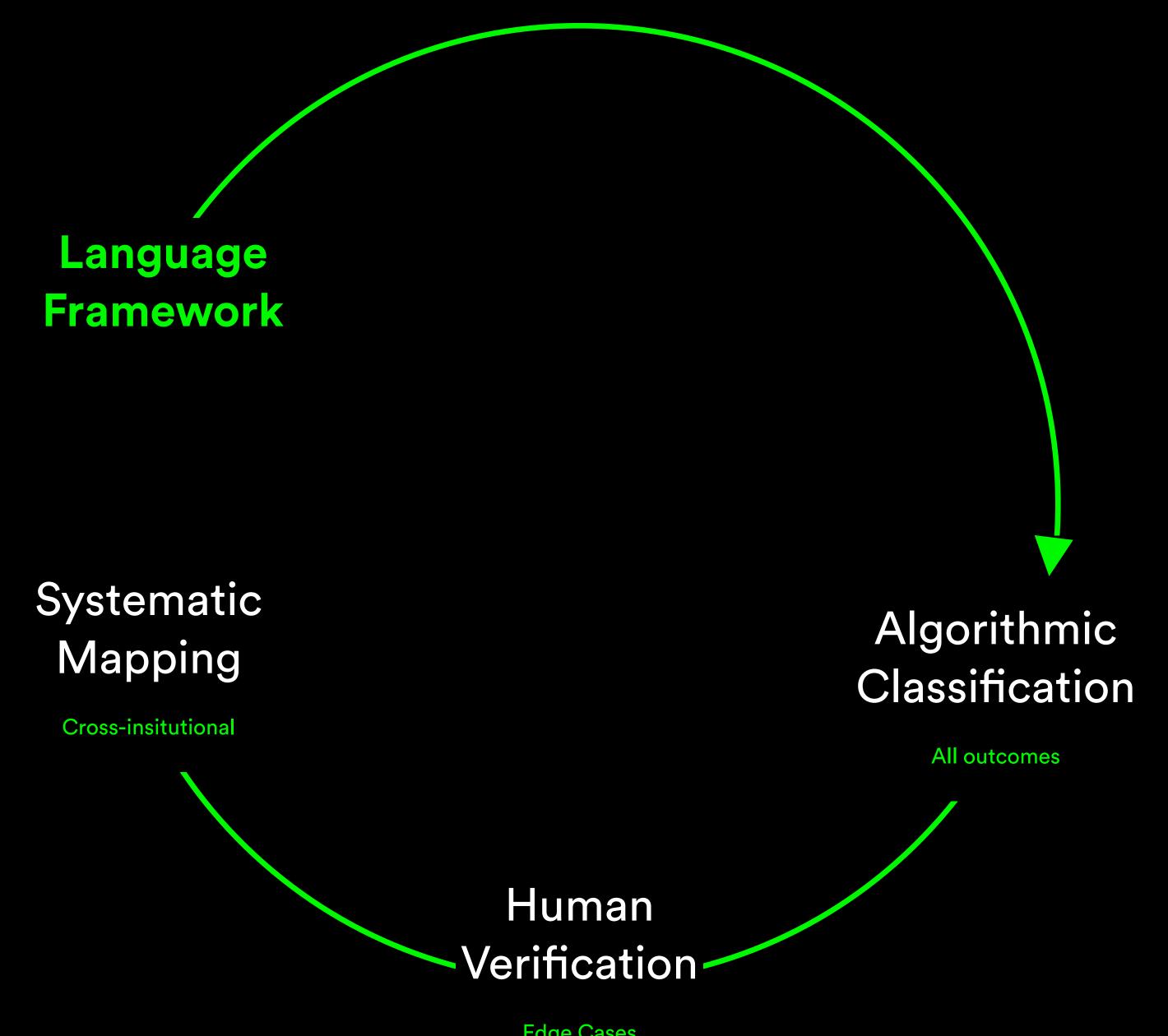
Generate propositions and proposals which test new hypotheses or speculations about the role of the [discipline] at the intersection of social and environmental justice

Generate [outputs]

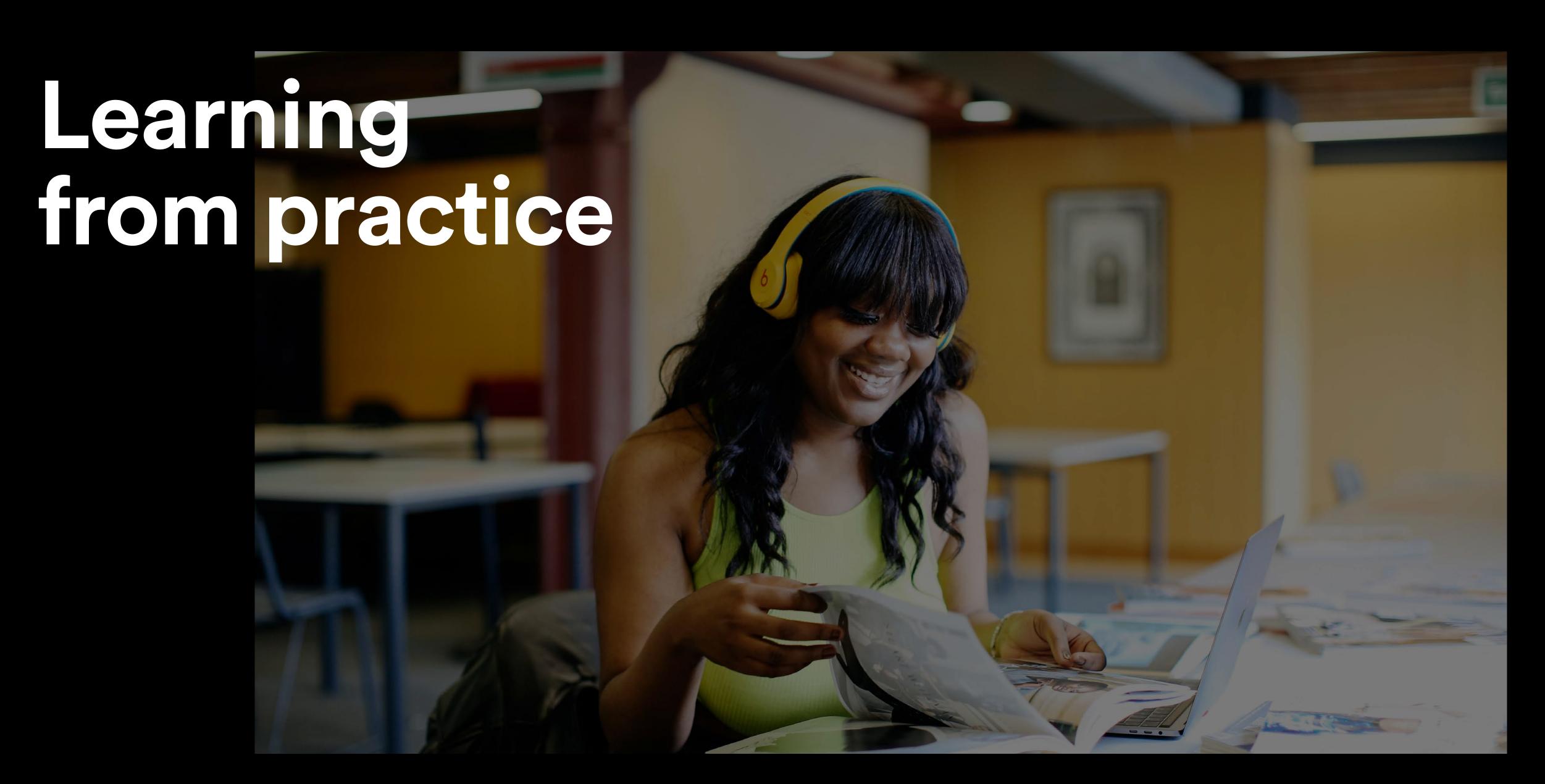
- + which test [concepts]
- + about [identify]
- + at [intersection]







Edge Cases



Linguistic architecture

Staff have already developed a linguistic scaffolding

How do we learn from, develop and share this expertise across the institution?

Assessment Criteria

Staff are strategically deploying assessment criteria

What can this teach us about flexible implementation?

And how might we address the gaps?

Authentic Assessment

Staff are creating assessment languages that blend disciplinary identity with climate justice principles

How do we learn from, refine and amplify these innovations?

Assessment as Change

Staff are already doing the pedagogical innovation

How could these practices underpin insititutonal evaluation assessment for climate justice?

where -- how

ocate - scaffold

compliance - meaningful engagement

References

- Akhan, N., Kocaağa, G., & Çiçek, S., 2022. Critical and Creative Perspectives of Gifted Students on Global Porblems: Climate Change Thinking Skills and Creativity. https://doi.org/10.1016/j.tsc.2022.101131
- Alvarez, J., Álvarez-Icaza, I., Suárez-Brito, P., & Molina-Espinosa, J., 2024. Relevance of objective and subjective profile: creative behavior assessment in higher education students. Frontiers in Education. https://doi.org/10.3389/feduc.2024.1387150
- Bearman, M., & Boud, D., 2022. The assessment challenge of social and collaborative learning in higher education. Educational Philosophy and Theory, 56, pp. 459 468. https://doi.org/10.1080/00131857.2022.2114346
- Calma, A., & Karunarathne, W., 2023. Assessing creative thinking skills in higher education: deficits and improvements. Studies in Higher Education, 49, pp. 157 177. https://doi.org/10.1080/03075079.2023.2225532
- Chaves, W., Oxarart, A., Plate, R., Bowers, A., & Monroe, M., 2019. Identifying
 - effective climate change education strategies: a systematic review of the research. Environmental Education Research, 25, pp. 791 812. https://doi.org/10.1080/13504622.2017.1360842
- Cross, I., & Congreve, A., 2020. Teaching (super) wicked problems: authentic learning about climate change. Journal of Geography in Higher Education, 45, pp. 491 516. https://doi.org/
 10.1080/03098265.2020.1849066
- Filho, W., Worsfold, N., Nagy, G., Molthan-Hill, P., & Mifsud, M., 2019. Climate change education for universities: A conceptual framework from an international study. Journal of Cleaner Production. https://doi.org/10.1016/J.JCLEPRO.2019.04.05

- Hirschfeld, I., Kinol, A., Axtell, H., Miller, E., Leggett, S., Stephens, J., & Si, Y., 2023. Climate justice in higher education: a proposed paradigm shift towards a transformative role for colleges and universities. Climatic Change, 176. https://doi.org/10.1007/s10584-023-03486-4
- Kerr, B., Long, H., Emler, T., & Birdnow, M., 2022. A Critical Review of Assessments of Creativity in Education. Review of Research in Education, 46, pp. 288 323. https://doi.org/10.3102/0091732X221084326
- Suherman, S., & Vidákovich, T., 2022. Assessment of Mathematical Creative Thinking: A Systematic Review. Thinking Skills and Creativity. https://doi.org/10.1016/j.tsc.2022.101019
- Magrane, E., 2024. Imagining alternative climate futures in higher education. Geographical Research. https://doi.org/10.1111/1745-5871.12678
- McCowan, T., 2023. The climate crisis as a driver for pedagogical renewal in higher education. Teaching in Higher Education, 28, pp. 933 952. https://doi.org/10.1080/13562517.2023.2197113
- Mueller, R., Seavey, J., & Jacobson, S., 2016. Integrated science and art education for creative climate change communication. Ecology and Society, 21, pp. 30. https://doi.org/10.5751/ES-08626-210330
- O'Brien, K., & Leichenko, R., 2020. Teaching climate change in the Anthropocene: An integrative approach. Anthropocene. https://doi.org/10.1016/j.ancene.2020.100241
- Ryan, T., Henderson, M., & Phillips, M., 2019. The challenges of feedback in higher education. Assessment & Evaluation in Higher Education, 44, pp. 1237 1252. https://doi.org/10.1080/02602938.2019.1599815
- Xu, W., & Tognolini, J., 2022. Build an Assessment Rubric of Student Creativity in Higher Education. 8th International Conference on Higher Education Advances (HEAd'22). https://doi.org/10.4995/
 head22.2022.14695