





SEAMEO RETRAC, July 07-08, 2022

The Ecosystem of Curriculum (Re)design in Higher Education Institutions



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Outline

- What is an ecosystem?
- Higher education ecosystem
- Why ecosystem?
- The Ecosystem of curriculum (re)design



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What is an Ecosystem?

"An <u>ecosystem</u> is the set of living and non living components related to each other at a particular time in a specific space."

Evans et al (1989)

Urie Bronfenbrenner formulated the Ecological Systems
Theory to explain how social environments affect children's development. The model organizes contexts of development into five nested levels of external influence: Microsystem, Mesosystem, Ecosystem, Macrosystem, and Chronosystem.

Source: What is Bronfenbrenner's Ecological Systems Theory?. (2019, May 3). The Psychology Notes Headquarters. https://www.psychologynoteshq.com/bronfenbrenner-ecological-theory/

Bronfenbrenner's Ecological Systems Theory

Chronosystem Changes Over Time

Macrosystem
Social and Cultural Values

Exosystem Indirect Environment

> **Mesosystem** Connections

Microsystem Immediate Environment

CHILD

(C) The Psychology Notes Headquarters https://www.PsychologyNotesHQ.com

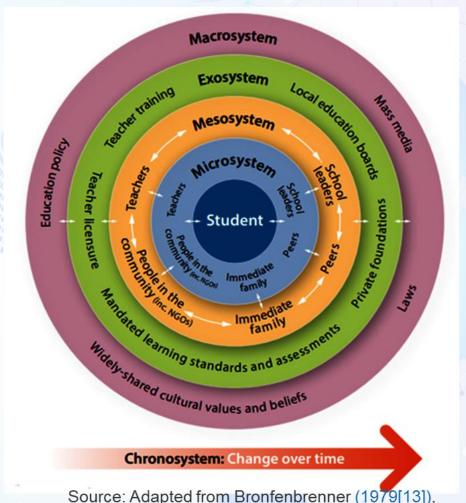
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- A network of interdependent organisations and people in a specific environment with partly shared perspectives, resources, aspirations and directions.
- The higher education ecosystem <u>is</u>
 <u>dynamic</u> and <u>intricately related</u>, change in
 one element creates change in the other
 elements and the overall environment.
- The <u>alignment</u> of various elements in the higher education ecosystem towards achieving the <u>purpose</u> of education is crucial.



Source: Adapted from Bronfenbrenner (1979[13]), developed by the OECD Education 2030 team (OECD, 2020[12]).

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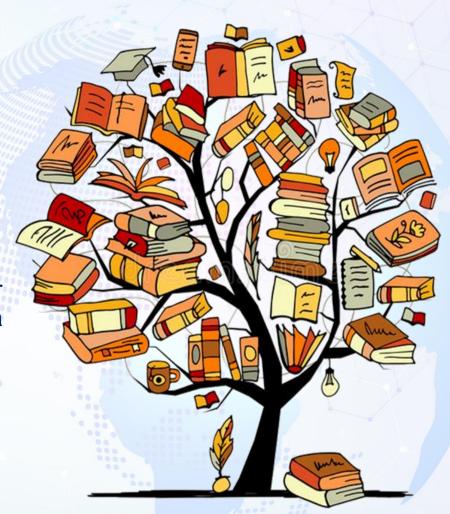
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University Ecosystem (UE) – a community of personnel (professors, researchers, students, external practitioners, etc.) that interacts with one another and with other personnel from the external environment, who are pulled into its sphere of influence. The flow of knowledge is the medium that links all the personnel. In the university, knowledge is attained through study and practice, observation, and experimentation. Discovery (the act of observing or finding something unknown) and invention (the process of creating a new technology), which are products of science, are turned into entrepreneurial innovation (the process of effectively bringing discovery and invention to market). This is the knowledge value chain through which the UE achieves truly meaningful success.

Source: University Ecosystems and the Entrepreneurial University, Prof Martin Curley and Prof Piero Formica, 2012.



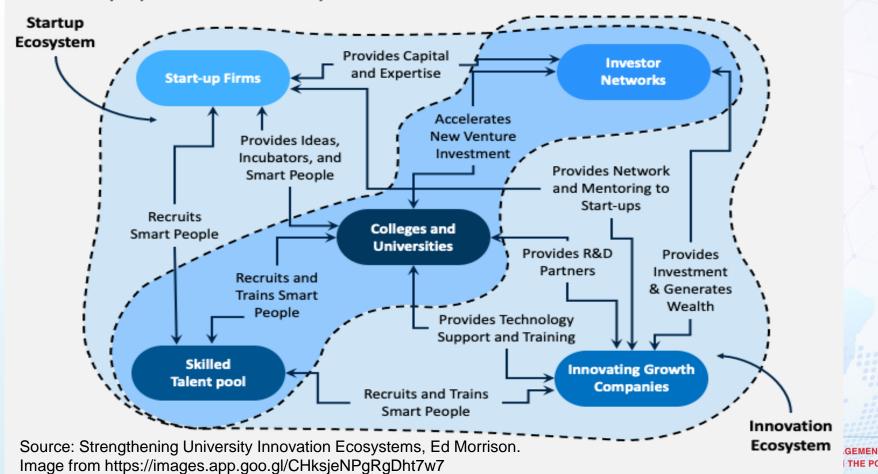
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UNIVERSITY ECOSYSTEM

University Operate Within Ecosystem



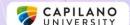




Table 2. The "new normal" in education

Features	Traditional education system	An education system embodying the "new normal"
Education system	Education system is an independent entity	Education system is part of a larger eco-system
Responsibility and stakeholders engagement	Decisions made based on a selected group of people and thus they become held accountable and responsible for the decisions made	Decision-making and responsibilities shared among stakeholders, including parents, employers, communities, and students
	Division of labour (Principals manage schools, teachers teach, students listen to teachers and learn)	Shared responsibility (everyone works together and assumes responsibility for a student's education and students also learn to be responsible for their own learning)
Approach to effectiveness and to quality of school experience	Outcomes most valued (student performance, student achievements are valued as indicators to evaluate systems for accountability and for system improvement) Focus on academic performance	Valuing not only "outcomes" but also "process" (in addition to student performance and student achievements, students' learning experiences are in and of itself recognised as having intrinsic value)
		Focus on not only academic performance but also on holistic student well-being
Approach to curriculum design and learning progression	Linear and standardized progression (the curriculum is developed based on a standardised, linear learning-progression model)	Non-linear progression (recognising that each student has his/her own learning path and is equipped with different prior knowledge, skills and attitudes when he/she starts school)
Focus of monitoring	Valuing accountability and compliance	System accountability as well as system improvements (e.g. continuous improvement through frequent feedback at all levels)
Student assessment	Standardised testing	Different types of assessments used for different purposes
Role of students	Learning by listening to directions of teachers with emerging student autonomy	Active participant with both student agency and coagency in particular with teacher agency
		Source: OECD Future of Education and Skills 203

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Nine organizational imperatives will separate future-ready companies from the pack.

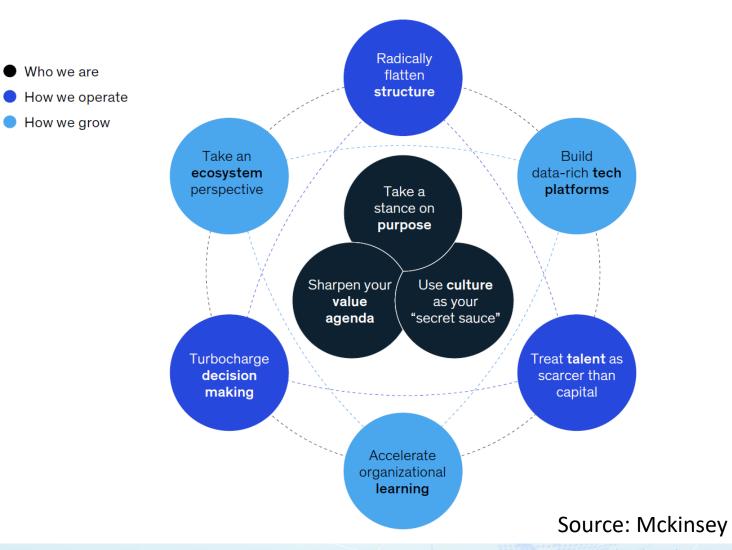


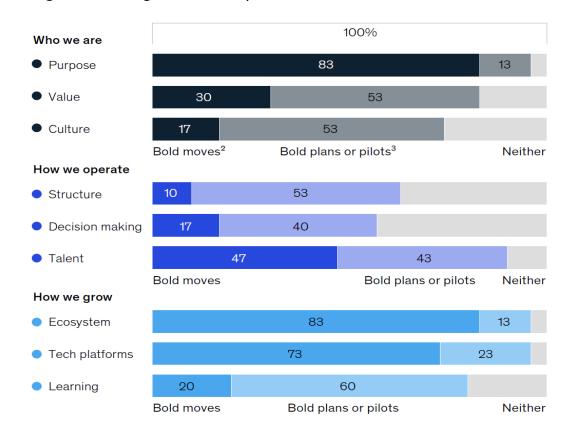




Exhibit 3

Top-performing companies are taking bold action across all nine imperatives.

Share of 30 top companies making,¹ and considering, bold moves against the 9 organizational imperatives, %



¹To acknowledge that industries have different market fundamentals and face different headwinds and tailwinds, we selected the top 10 industries as measured by their average economic profit between 2015–19. We then selected the top 3 companies from each industry by the same metric.

²Bold moves defined as: 1) Company among the first to adopt a given practice; 2) the practice is unique and not copied elsewhere; or 3) the practice has been scaled across >50% of the company.

³Bold plans defined as: Company is actively planning or piloting a bold move as defined above. Source: McKinsey Organization Practice; McKinsey Strategy & Corporate Finance Practice

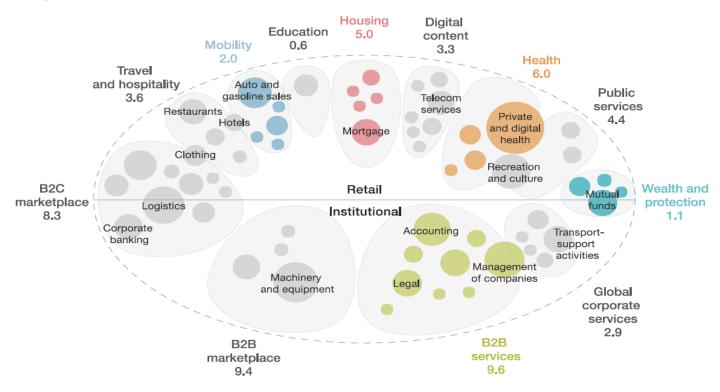




Why Ecosystem? Exhibit

New ecosystems are likely to emerge in place of many traditional industries by 2025.

Ecosystem illustration, estimated total sales in 2025,1 \$ trillion

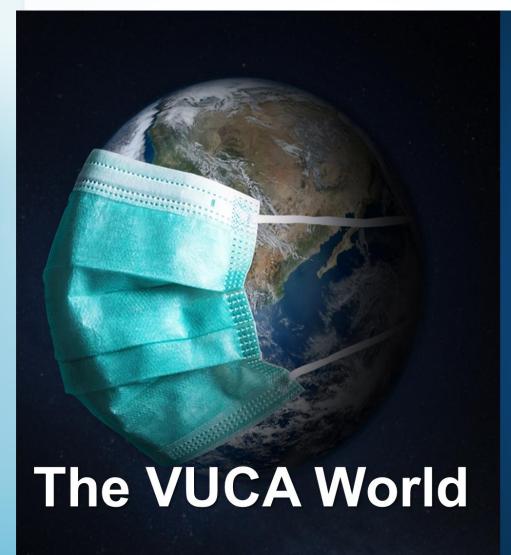


¹Circle sizes show approximate revenue pool sizes. Additional ecosystems are expected to emerge in addition to those depicted; not all industries or subcategories are shown.

McKinsey&Company | Source: IHS World Industry Service; Panorama by McKinsey; McKinsey analysis













Adapted from Kosh & Platte (2017)

> ATL in a VUCA world



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HOW MUCH DO YOU KNOW ABOUT YOUR SITUATION?





VOLATILITY

- Shorter lifecycle of knowledge, skills and attitudes
- Disruption in education & pedagogy
- Displacement of accreditation processes

Sponsor



UNCERTAINTY

- New technologies
- New skills
- New start-ups & businesses
- New "normal"
- Rise of ecosystem intelligence

Impacts of VUCA world on higher education

COMPLEXITY

- The digital world
- Complex networks of interconnectedness
- Demographic & cultural diversity & inclusiveness

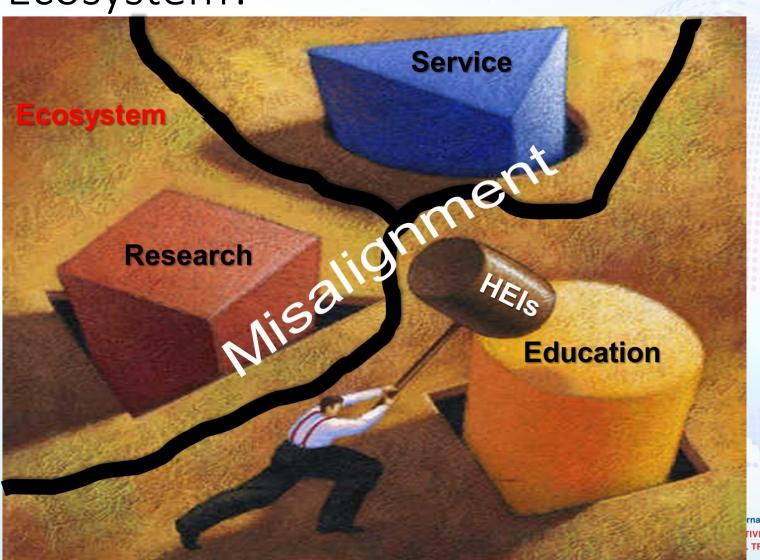
AMBIGUITY

- Blurred boundaries between disciplines
- Wicked problems
- Rise of design education and design thinking

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- The IQA system design at both institutional and programme level is depended on the contextual factors of the ecosystem.
- The approach to design an IQA system requires an outside-in (ecosystem) approach

Quality for Purpose Quality in fulfilling a requirement, specification, standard or intended outcome. **Quality of Purpose** Quality is aligned to the organisation's vision, mission, culture & goals, and the larger ecosystem

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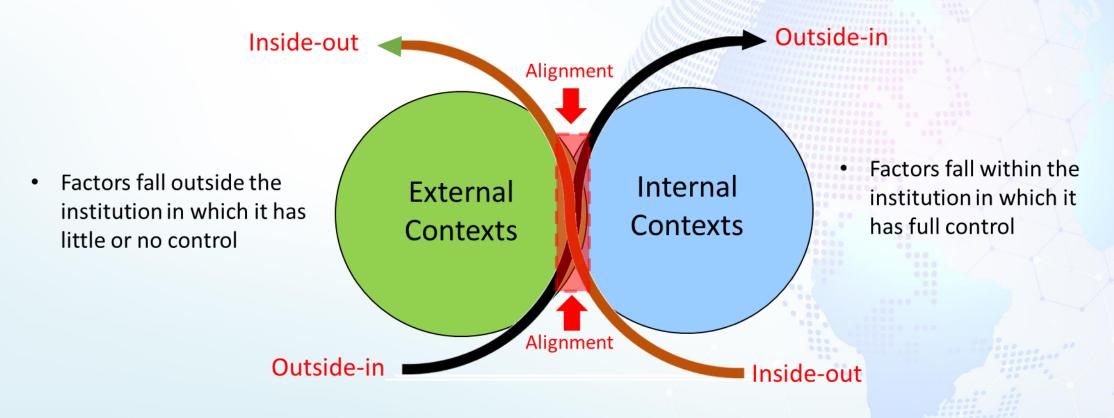
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Figure 11. **Design principles**



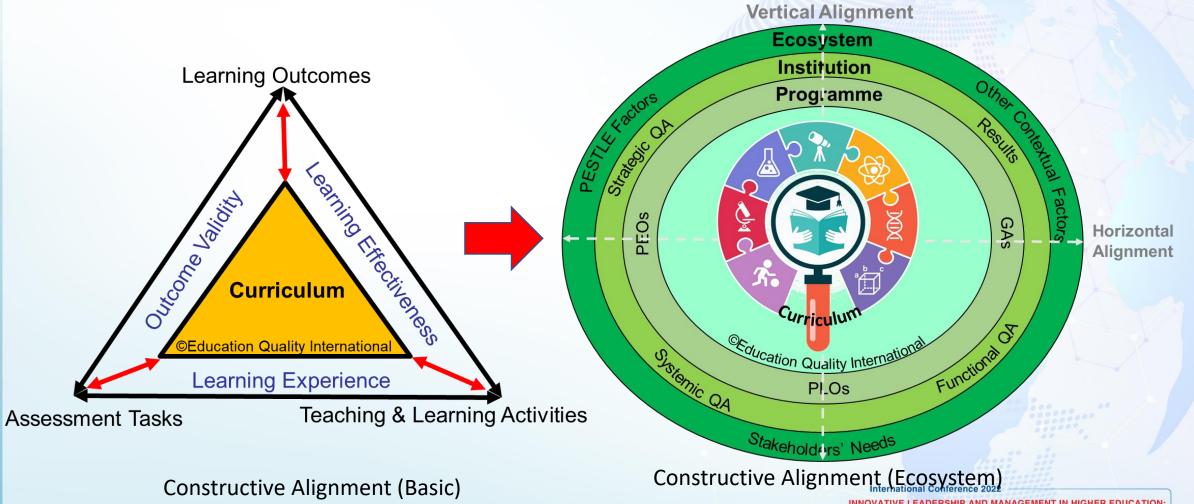
Source: Adapted from OECD position paper, https://www.oecd.org/education/2030/E2030%20Position%20Paper%20(05.04.2018).pdf.

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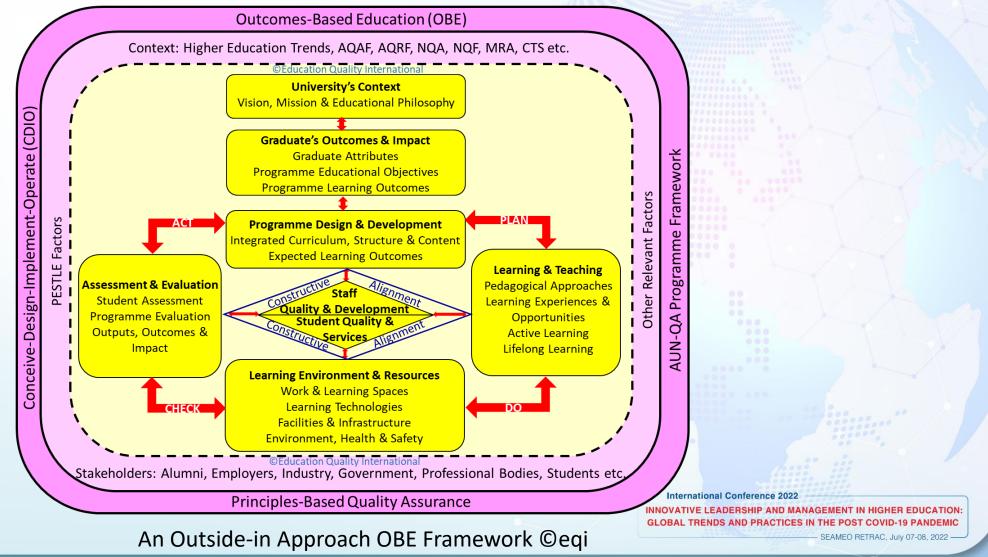




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About Education Quality International

- Education Quality International (eqi) is a Singapore's registered business founded with the
 mission of uplifting the quality and quality assurance higher education with a strong conviction in
 "Quality Education Quality Life".
- It provides training and consultancy services to higher education institutions in quality assurance, curriculum (re)design, outcomes-based education (OBE), assessor's training, institutional and programme QA.
- A key partner of the AUN-QA Network in providing AUN-QA training and community projects in CLM Countries











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