



HEUTAGOGY AND EDUCATION 4.0 IN HIGHER ONLINE EDUCATION



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THE CONCEPT

- questions
- conclusion
- key findings
- heutagogy
- ed 4.0

TECHNOLOGY
Industry 4.0

FUTURE SKILLS
Capabilities

CHANGE
The way we live, play, interact, work, and learn


about

EDUCATION
Education 4.0

HEUTAGOGY
Approach

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ed 4.0

THE PAPER



THESIS

Heutagogy practices in online education aligns with Education 4.0's framework by building the skills needed for today's workforce and in the future.



RESEARCH QUESTION

How does Heutagogy in higher online education and future skills meet the needs of Education 4.0?




APPROACH

Literature Review to seek connections with Heutagogy, future skills, and Education 4.0 in Higher Online Education



about

INDUSTRY 4.0 – THE TECHNOLOGY REVOLUTION

 **conclusion**

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heutagogy

1


**HYPER
AUTOMATION**

2

**HYPER
CONNECTIVITY**

3

**THE INTERNET
OF THINGS
(IOT)**

 **ed 4.0**

about

THE WORLD ECONOMIC FORUM PREDICTIONS

The World Economic Forum (2018)

65%

of students currently in school will work in jobs that do not exist today

47%

of today's jobs will be automated in the next 10 years

> 50%

Content in graduate degrees will no longer be relevant in 5 years



conclusion

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EDUCATION 4.0 - THE EDUCATION REVOLUTION



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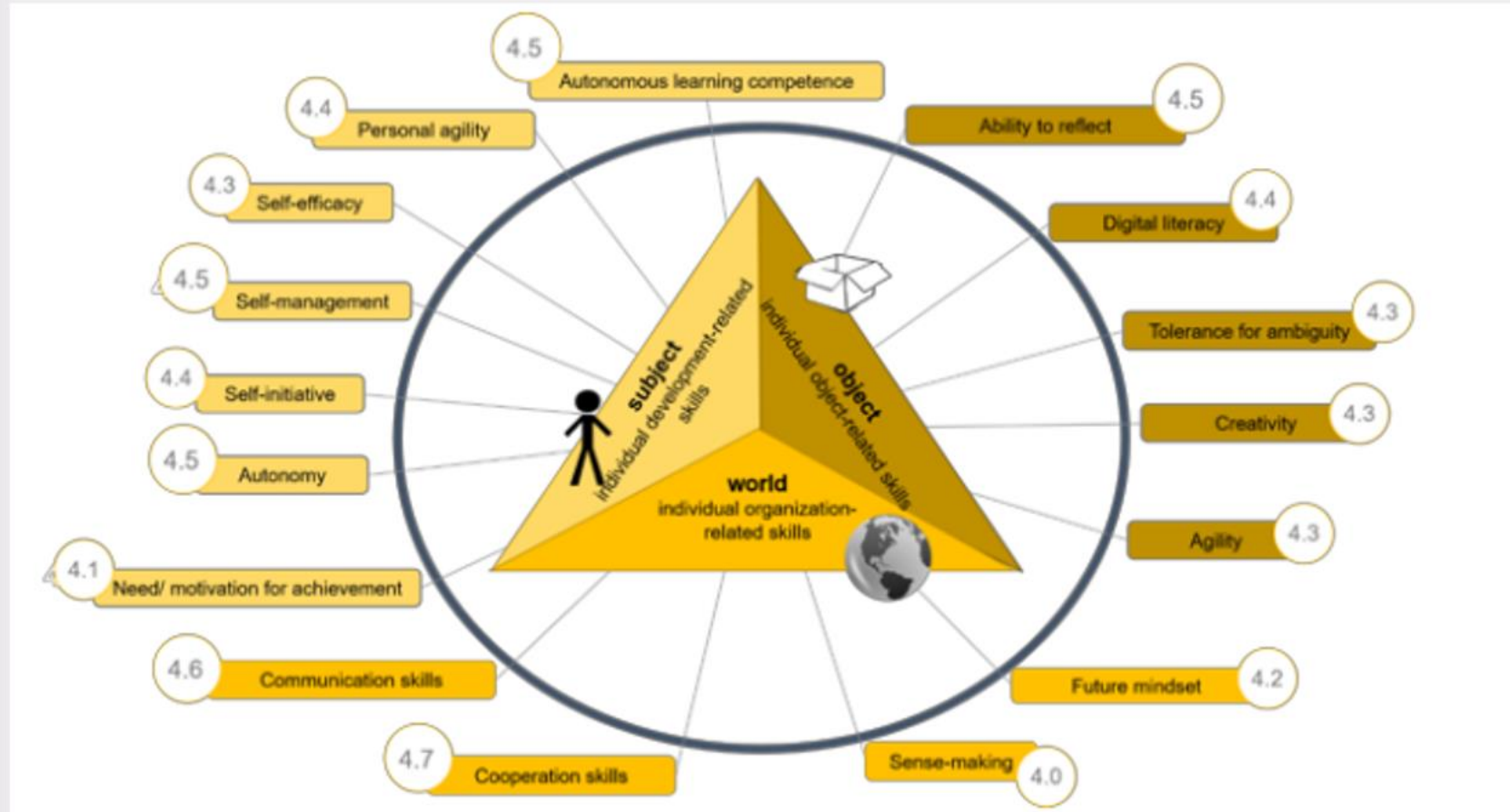
ed 4.0

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Figure 1: Future Skills: The Future of Learning and Higher Education Report Cover page (Ehlert & Kellermann, 2019)

EDUCATION 4.0 - THE EDUCATION REVOLUTION

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Figure 2: Future Skills Model depicting 3 interrelated dimensions, which categorizes 16 future skills (Ehlers & Kellermann, 2019)

EDUCATION 4.0 - THE EDUCATION REVOLUTION

CONTENT AND CURRICULUM DRIVERS

Focus on Future Skills

- Autonomous learning
- Self-organization
- Applying/reflecting knowledge
- creativity

“My-University” Scenario

Students can build their own curricula based on personal interests

Multi-Institutional Study Experience

Higher education study structure and experience shifts from single to multi institutional

Lifelong Learning

- Important to establish in initial higher education
- Learners in the workplace the main type of student

ORGANIZATIONAL-STRUCTURE RELATED DRIVERS

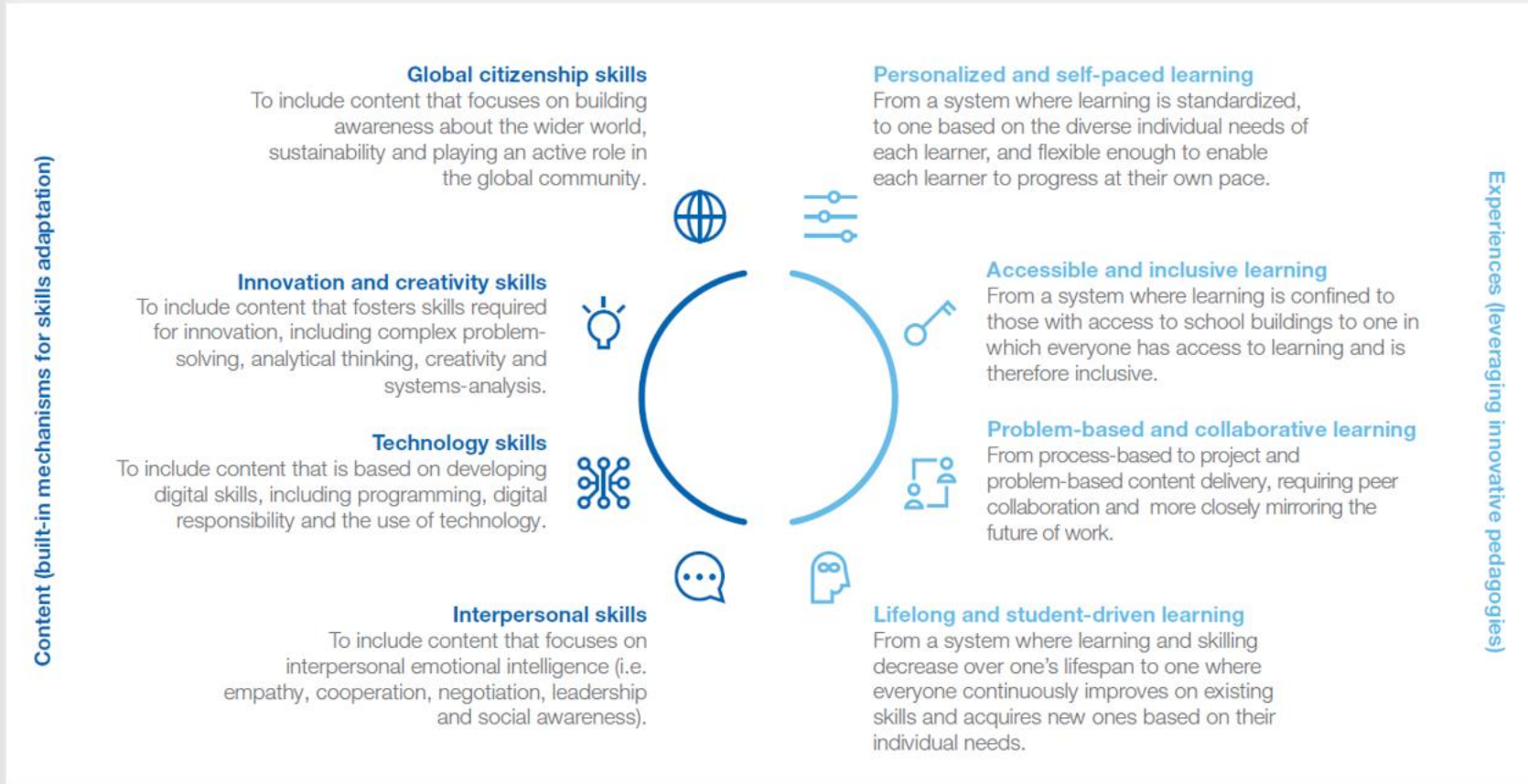
Figure 3: Future Skills: The Future of Learning and Higher Education – Drivers of Change In Higher Education (Ehlers & Kellermann, 2019, p. 4-5)



THE WORLD ECONOMIC FORUM EDUCATION 4.0 FRAMEWORK

“Schools of the Future: Defining New Models of Education for the Fourth Industrial Revolution”

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WHAT IS HEUTAGOGY?



SELF-DETERMINED LEARNING

Learner is at the centre who decides what and how to learn



CAPABILITY

Ability to know how to learn and have strong self-efficacy



SELF-REFLECTION

Critical learning skill that supports knowing how to learn



NON-LINEAR LEARNING

Learners define and choose a variety of paths to learning



heutagogy

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WHAT IS HEUTAGOGY?



CAPABILITY

Ability to know how to learn and have strong self-efficacy

COMPETENCY VS. CAPABILITY

- Competency seen as skills to enable people to perform an job or action; skills, knowledge, and capacity to fulfill current needs
- Capability are qualities, abilities, capacity to have the potential to be developed and adapt to future needs

(Nagarajan & Prabhu, 2015)

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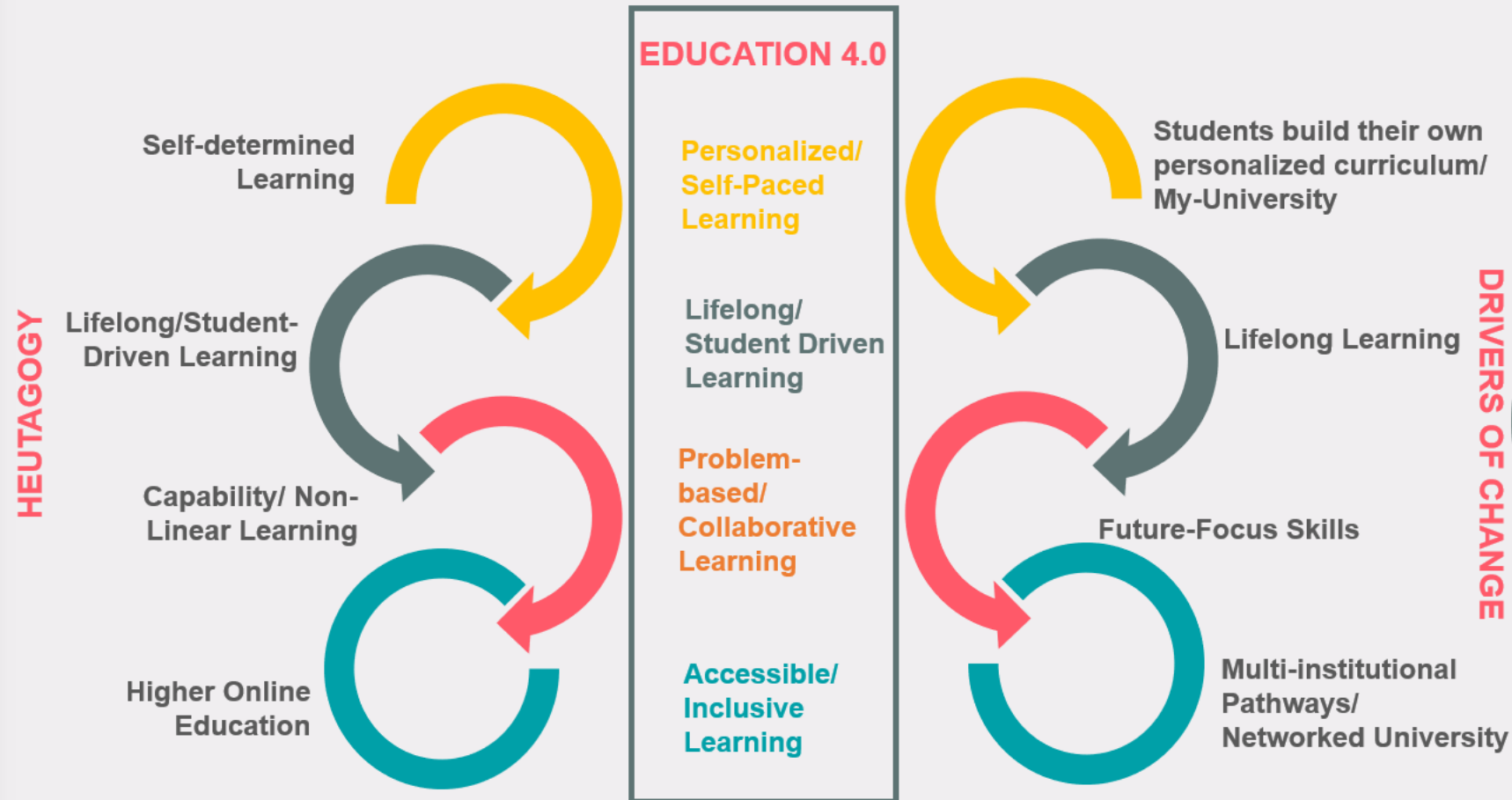


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CONCEPTUALIZATION



How does Heutagogy in higher online education and future skills meet the needs of Education 4.0?

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HOW DOES HEUTAGOGY IN HIGHER EDUCATION MEET THE NEEDS OF EDUCATION 4.0?

“It is a world in which information is readily and easily accessible...disciplined-based knowledge is inappropriate to prepare for living in modern communities and workplaces; learning is increasingly aligned with what we do; modern organizational structures require flexible learning practices; and there is a need for immediacy of learning.”

(Davis & Hase, 2020)



Image: Green River (jerology.tumblr.com)



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UPCOMING RESEARCH

MICRO CREDENTIALS

How can online higher-education micro-credential offerings deliver the 21st – Century skills employers and earners need to stay relevant in our fast-changing world?

questions



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THANK YOU

QUESTIONS & FEEDBACK WELCOMED



Presentation References

or go to <https://bit.ly/39EuGRO>



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