DIGITAL CREDENTIALS MASTERCLASS
Bled, Slovenia
24-25 October 2019

Didactical Innovation through Micro-Credentials
New industrial revolution may end retirement, Mark Carney warns

Mark Carney said the nature of work was changing, with Britain on the cusp of an industrial revolution in AI and automation.

REUTERS

Longer lives and rapid advances in technology could mean that some workers never have the option of retiring, Mark Carney has warned.
"The biggest issue may be how to institutionalise re-training in mid-career and to integrate it with the social welfare system."
EDUCUSE Horizon Report | 2019 Higher Education Edition at a Glance

Significant Challenges Impeding Higher Education Technology Adoption

**Solvable**  Those That We Understand and Know How to Solve
- Improving Digital Fluency
- Increasing Demand for Digital Learning Experience and Instructional Design Expertise

**Difficult**  Those That We Understand but for Which Solutions Are Elusive
- The Evolving Roles of Faculty with Ed Tech Strategies
- Achievement Gap

**Wicked**  Those That Are Complex to Even Define, Much Less Address
- Advancing Digital Equity
- Rethinking the Practice of Teaching
## Important Developments in Technology for Higher Education

<table>
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<tr>
<th>Year</th>
<th>Time-to-Adoption Horizon: One Year or Less</th>
<th>Time-to-Adoption Horizon: Two to Three Years</th>
<th>Time-to-Adoption Horizon: Four to Five Years</th>
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<tr>
<td>2019</td>
<td>Mobile Learning Analytics Technologies</td>
<td>Mixed Reality Artificial Intelligence</td>
<td>Blockchain Virtual Assistants</td>
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<td>2020</td>
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EDUCAUSE Horizon Report | 2019 Higher Education Edition at a Glance

Key Trends Accelerating Higher Education Technology Adoption

**Short-Term** Driving Ed Tech Adoption in Higher Education for the Next One to Two Years
- Redesigning Learning Spaces
- Blended Learning Designs

**Mid-Term** Driving Ed Tech Adoption in Higher Education for the Next Three to Five Years
- Advancing Cultures of Innovation
- Growing Focus on Measuring Learning

**Long-Term** Driving Ed Tech Adoption in Higher Education for Five or More Years
How is the world changing outside of higher education, and how is higher education responding to change? This report focuses on trends both inside and outside higher education. We’ve organized Trends using STEEP:

- **Social**: How people work internally (psychology) and with each other (sociology)

- **Technology**: How people use technology (including hardware and software), how society relies on technology, and how technology affects society

- **Economic**: Macro- or microeconomics, including global trends, anything related to jobs and skills needed for jobs, and industry shifts

- **Environmental**: Our external surroundings, including sustainability and our evolving workplaces, cities, and living spaces

- **Political**: Public policy, governmental systems, the people within them, and the effects of government decisions on our citizens and communities
“The conception of education as a social process and function has no definite meaning until we define the kind of society we have in mind.”

John Dewey, Democracy and Education, 1915
“Space is not a scientific object removed from ideology or politics. It has always been political and strategic. Space, which seems homogeneous, which appears as a whole in its objectivity, in its pure form, such as we determine it, is a social product.”

Future Learning Spaces: new ways of learning and new digital skills to learn

• Learning Spaces are Personal Digital Spaces
• Learning Spaces are Connecting and Social Spaces
• Learning Spaces are Trusted Spaces
• Learning Spaces are Creative/Flexible Spaces
• Learning Spaces are Certified Spaces
• Learning Spaces are Motivating and Pleasant Spaces
• Learning Spaces are Controllable Spaces
• Learning Spaces as Knowledge Management Systems
• Learning Spaces are Inclusive Spaces

European Commission Joint Research Centre | Institute for Prospective Technological Studies (IPTS)
About SWAYAM

SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching learning resources to all, including the most disadvantaged.

SWAYAM: FORTIFYING HIGHER EDUCATION SYSTEM IN DIGITAL ERA

Chandra Sekhar Pinipilli, Venkata Ramana Murthy Kudumula

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