



Universities, Public-Private Partnerships, and the Innovation Ecosystem

Opportunities Of Techno-industrial Innovation In Different Socio-cultural and Policy Situations:

Diversities of Innovation

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INNOVATION, PARTNERSHIPS AND HIGHER EDUCATION

- Importance of post-secondary learning in a global economy – new markets
- Universities face a future of accelerating change and the need for rapid adaptability by institutional component – new research agendas
- Shift from “education” to learning/training approaches that match employer needs to workforce skills – new partnership synergies
- Innovation components:
 - Learning innovation (Higher Ed/ Advanced Skills /Technical Training)
 - Institutional innovation and change – the university as complex system(s)
 - Technologies of change (learning, collaboration, diffusion of innovation)
 - Networks of knowledge and collaboration
 - Policy as a tool for driving innovation

CHANGING CONTEXT OF HIGHER EDUCATION

- Increased global competition for institutions, students, and employers
- Technology driving new markets for learning/training opportunities
- Changing demographics and different needs of learners
- New processes/platforms: attention to economies, crowdsourcing, and collaboration
- Impact of scale
- Importance of locale in a virtual world
- Interaction between teacher and student, material (e-accessibility), well as between industry
- Branding and impact of value-added services/capabilities



UNIVERSITIES, INNOVATION, AND REGIONAL CONTEXT

- Storming of the ivory tower vs. lower the drawbridge
- Rethinking ways in which universities engage the changing student, and the markets for students
- Collaboration with industry to drive targeted (applied) research
- Model of university as translational organization, value added to regional impact
- University as **virtual** as well as physical locale
- Develop virtual partnerships to mirror online educational efforts
- Value added face to face to augment virtual
- Workforce impact – shift from pure research to “training”

INSTITUTIONAL CHANGE ACTORS

- Universities and other institutions of higher education
- Public Sector (government)
- Private sector, industry groups, platform developers
- Associations, Accreditors, Foundations, NGOs
- Users, consumers, students, employers
- Ordering may be context sensitive

LEARNING, EDUCATION, AND CHANGE FACTORS

- Online Information and the changing learner - skills + domain knowledge
- Learning vs. education – student-focused vs. top-down programs
- Assessment, Competencies, Skills
- Certification/Validation of Learning
- Collaborative Communities
- Sustainability/access/
knowledge transfer digital technologies facilitate new instructional, engagement, participation, and learning approaches



INNOVATION LINKED PRACTICES AND PROCESSES

- Shifts learner from “object” to “subject” — education not delivered, but learning facilitated in multiple contexts
- Social Learning/impact of groups
- Blended/Inverted learning approaches
- Rethinking Accreditation/Direct Assessment
- Alternative Certification
- “Markets” for Learning Options
- Learning and “knowledge upgrades”

INFORMATION DRIVEN TECHNOLOGIES

- E-books, LMS (26+), Massively Open Online Courses (MOOCs) – more than 1,764 developed for the Coursera platform alone
- MOOC platforms (25+) in addition to traditional Publishers
- Collaborative learning communities/ impact of forums
- Inverted Classrooms/Blended learning
- Gamification/simulations
- Data analytics



ECOLOGY OF PLATFORMS

- Globally, 25+ MOOC platforms
- Convergence between LMSs (26+) MOOCs, and traditional publishers
- +/- 14 U.S.: Main MOOC platforms: Coursera, Udacity, edX, Udemy
- International
 - AUS: Open2Study
 - Canada: WideWorldEd
 - Finland: Eliademy
 - Germany: Iversity
 - Spain: UniMOOC
 - The Netherlands: OpenUpEd
 - U.K.: Futurelearn, Open Learning
 - Brazil: Veduca

NEW METRICS OF ASSESSMENT

- Real time analytics (in online environments)
- Game and collaborative-based evaluation
- Classroom “Clickers” (or equivalent in-person devices)
- Peer evaluations
- Crowdsourced reviews

“NEVER LET FORMAL EDUCATION GET IN THE WAY OF YOUR LEARNING.”

~ MARK TWAIN

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