

The background of the slide is a composite image of the KAIST campus. The top portion shows a blue sky with white clouds. Below that is a large, modern building with a glass facade and a clock tower, with the letters "E1B" visible on its side. The bottom portion shows a wide, paved road with a crosswalk, surrounded by green lawns and trees, with a large parking lot filled with cars in the distance.

Provost Roles in 2050

O Ok Park

Provost and Executive Vice President

March 13, 2018

Questions

Session 6 The role of present and future provosts as facilitators and transformers

- 1) What will the provost's portfolio look like **in 2050**?
- 2) How can APRU provosts **better support** academic and strategic **planning** and **development**?
- 3) How can the provost's office **better support** **institution missions** e.g. transdisciplinary research, interdisciplinary, diversity, tenure and promotion, staff mobility?

1.1. University's Roles in the Future?

- Defense & Industrial Technologies, Businesses



Research Universities

- Massive Demand of Skilled Labor

- Education to Employment
- Department System

Mass Education

Education for Selected Persons



Middle Ages

Industrial Revolution

Second World War

4th Industrial Revolution



1.2. Changes in Higher Education

Technology Revolution

AI & Quantum Computing,
High-Speed Network,
Automation(Professional Jobs),
Smart Learning

Job Market/ Industry Changes

Less Labor/Employment/Work,
Professional Jobs Decrease,
Mass Customized Services

Social Changes

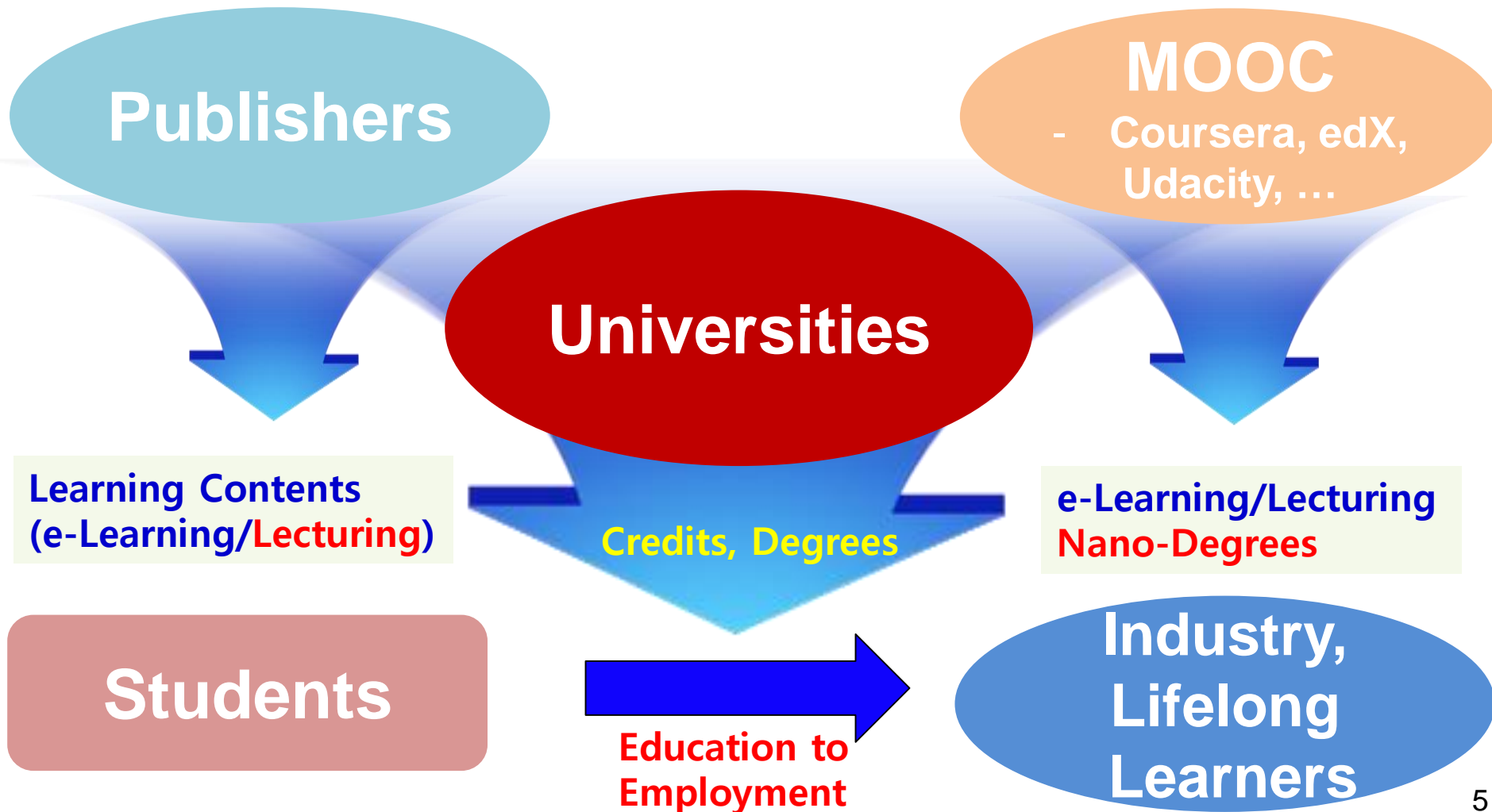
Aging & Prolonged Lifespan
Globally Networked
Social Inequality & Gap

University Changes

Potential Students
Governance
Teaching & Learning Method
Roles of Professors

1.3. New Ecology of Higher Education

Universities are **NOT** sole providers of lectures, credits, and degrees!



1.4. Challenges in Higher Education

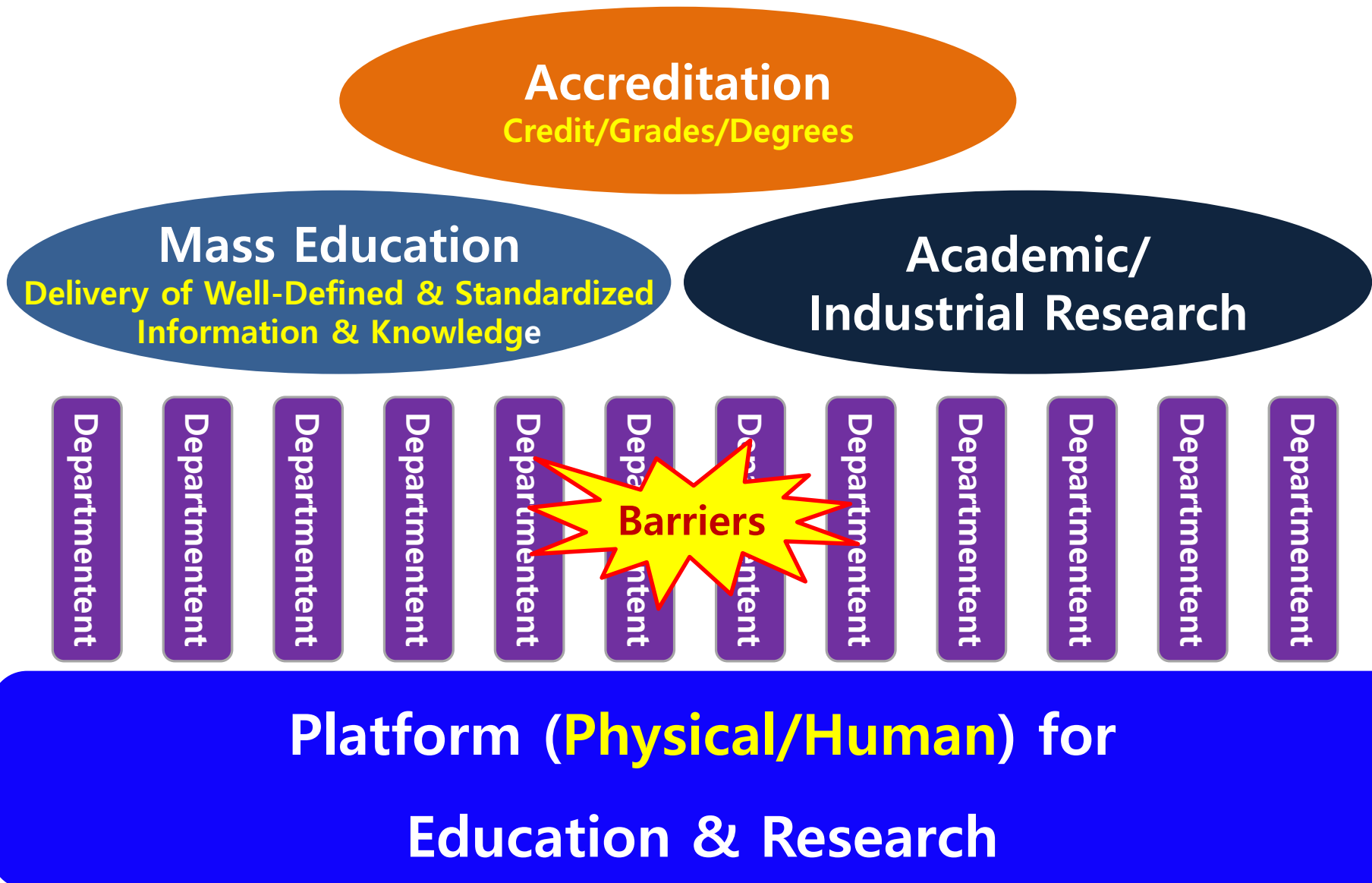
**Transdisciplinary /
Convergence Issues**

**Dynamically
Changing Skills &
Knowledge**

Demand on New Talents
Creative Problem Definition & Solving,
Teamwork, Comm., Leadership

New Revenue Model
Tuition →
Contents & Services Provider

2. Conventional University Biz Model



2. Educational Transformation

**Transdisciplinary
Education**

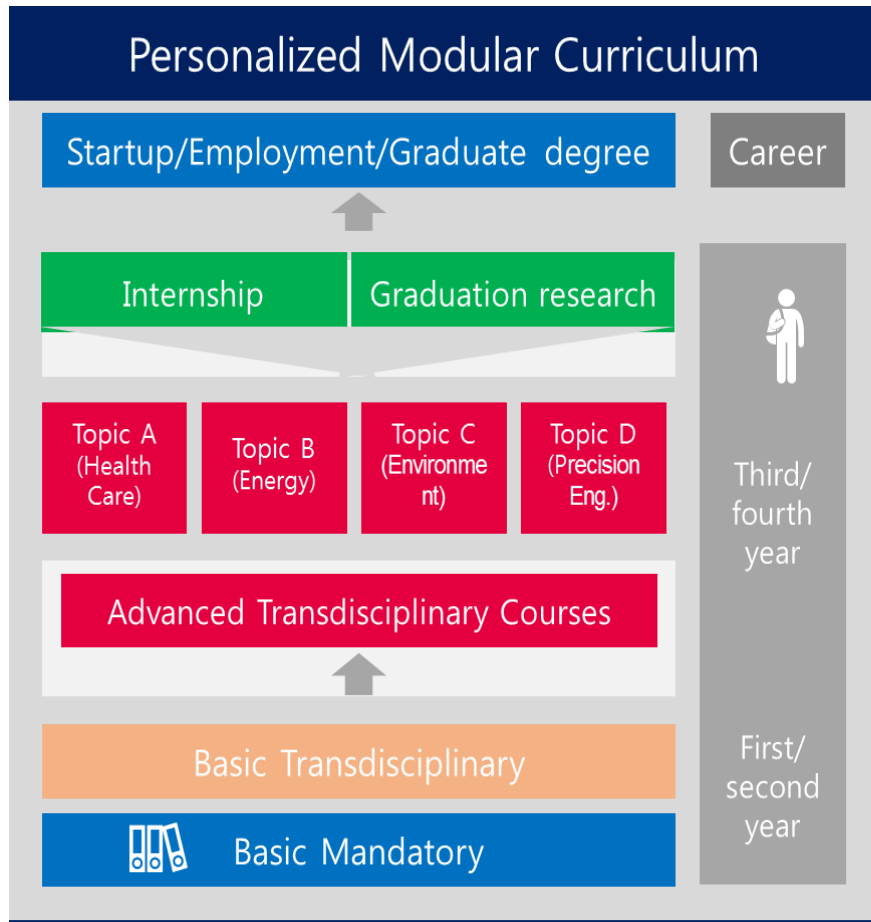
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graph TD; A([Transdisciplinary Education]) --> B([Smart & Creative Education]); B --> C([Educational Contents & Service Provider]); C --> A;
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**Smart & Creative
Education**

**Educational Contents &
Service Provider**

2-1. Transdisciplinary Education

Flexible, Dynamic Combination of Course Modules by **Breaking Department Barriers**

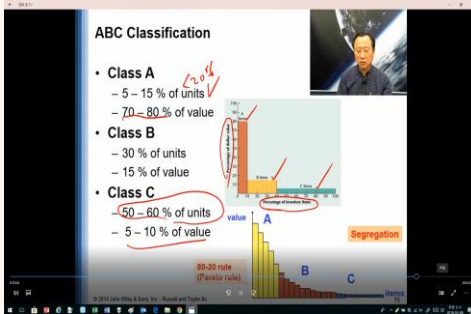


Characteristics by Course Type		
Type	Course	Student guidance
Research	Seminar, Basic lab, Team URP, Internship or Graduation research	Focus on areas of interest (Mentor)
Advanced Transdisciplinary	Health Care, Energy, Urban environment, Precision engineering, etc.	Course design (Mentor)
Basic Transdisciplinary	Modern physics, organic-biochemistry, Economics, Molecular biology, Applied mathematical modeling, Dynamics, Transdisciplinary programming, Signals and systems, Materials science, etc.	Course design guidance, themed seminar (Academic Advisor, Mentor)
Basic/General	Mandatory general, Humanities and social sciences, Basic mandatory, Basic elective	Freshmen program

2-2. Smart & Creative Education

Creative Teaching & Learning

No Conventional Lecturing!



- Interactive Smart Learning
- On-line in Advance



- Team-based Learning
- Off-line Discussion

Flipped Learning

Smart MOOC

(Smart/Interactive
Massive Open Online Course)

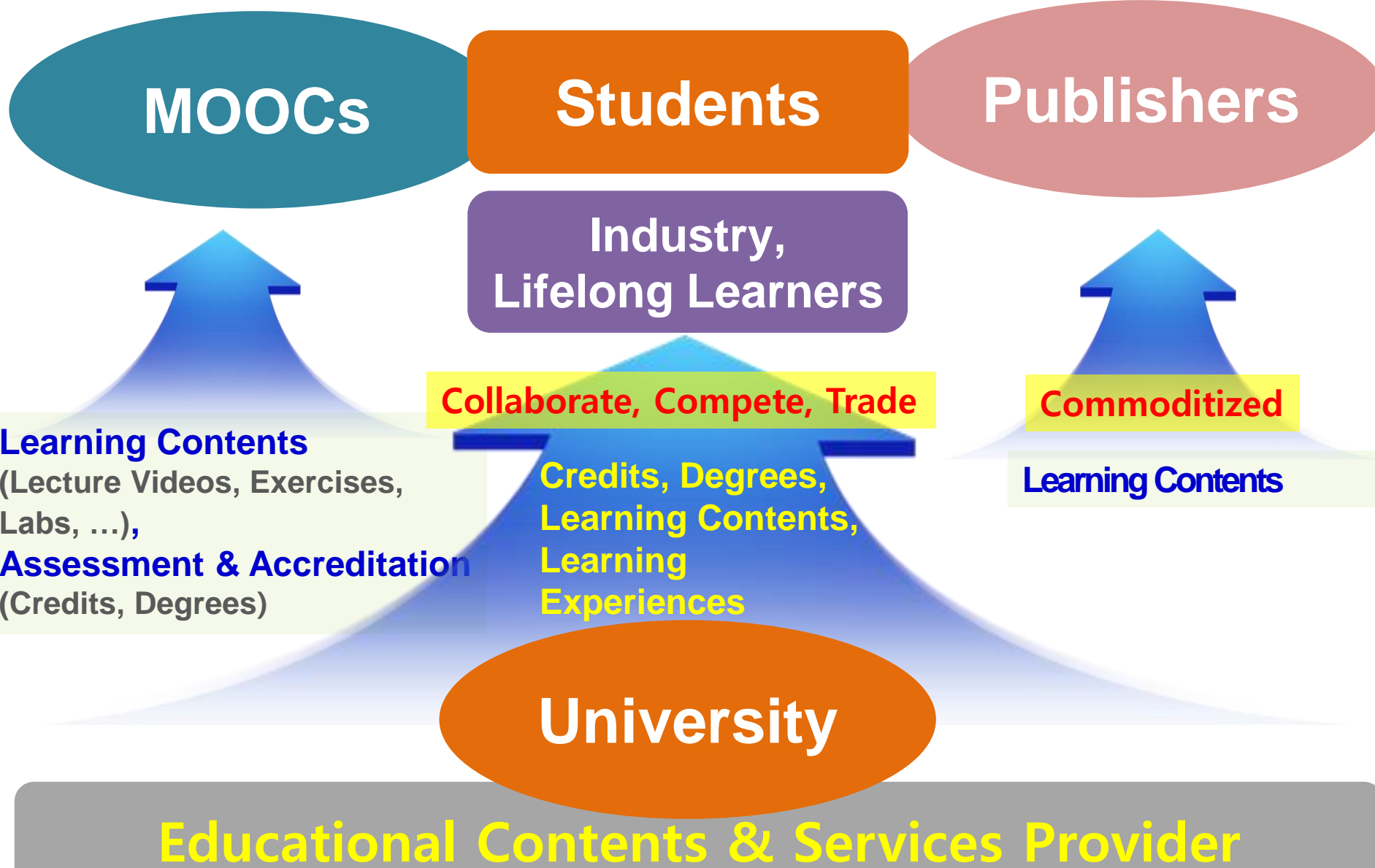
Virtual University

(Real-Time Online
Interactive Classes)

Smart Learning Infrastructure

(Teamwork-based Classrooms, Smart Teamwork Rooms,
Networked Classrooms, Smart Studios, Smart LMS)

2-3. Learning Contents & Service Provider



3-1. Roles of Provost on Education in 2050

Chief Operation Officer(COO) for Educational Business



Learning
Contents
Production



Learning
Experience
Provision



Learning
Business
Develop. &
Marketing

3-2. Roles of Provost on Education in 2050

Chief Educational Innovator



Teaching &
Learning
Methods



Education
Systems



Innovative
Curriculum

2019 THE-KAIST Innovation & Impact Summit



#THEINNOVATION

Launch of New Innovation Ranking!

Impact of University Innovation
on the 4th Industrial Revolution

April 2-4, 2019

KAIST

Innovation in Education

Future of Physical University vs Virtual University, New Educational Pedagogy, Reskilling and Upskilling of Work Force, Continuing Education, Failure Preparation

Innovation in Research

Cross/Multi-Disciplinary Research

Innovation in Technology Commercialization

How to accelerate technology transfer, Social Entrepreneurship, Tech-Based Startups, How universities can help industry to retrain their employees?

Triplehelix of Innovation: University, Industry and Government

Role of University, Industry and Government for the Era of 4th Industrial Revolution