De La Salle University

Response to the 4th Industrial Revolution

Brother Raymundo Suplido FSC, PhD
President
4th Industrial Revolution (Schwab, 2016)

1\textsuperscript{st} Rev
Mechanical Production
steam engine, railroads

2\textsuperscript{nd} Rev
Mass Production
electricity, assembly line

3\textsuperscript{rd} Rev
Digital Revolution
computers, internet

4\textsuperscript{th} Rev
Interaction across physical, digital & biological domains
sensors, AI, machine learning

APAIE 2018 Conference & Exhibition | The Impact of the Fourth Industrial Revolution on Higher Education in the Asia Pacific | 25 to 29 March 2018
4th Industrial Revolution (Schwab, 2016)

• HARMONIZATION, interaction and integration of disciplines
• DISRUPTION
• Need for a set of COMMON VALUES
How are Universities responding to the changes brought about by the 4th Industrial Revolution?

The Experience of DE LA SALLE UNIVERSITY

Est. 1911 Private, Comprehensive University

14,000 undergrad • 4,500 postgrad • 1,112 Faculty

www.apaie2018.org
Essential roles of universities:

Research

Teaching

Community / Social Engagement
Vision-Mission of De La Salle University:
Vision-Mission of De La Salle University

A leading learner-centered and research University, bridging faith and scholarship, attuned to a sustainable Earth and in the service of Church and society, especially the poor and marginalized.

www.apaie2018.org
Harmonization and Disruption...

New Teaching – Learning Content and Styles

New content
• Big data & cloud computing
• Artificial intelligence

New styles
• Interdisciplinary
• Multidisciplinary
• E-courses

APAIE 2018 Conference & Exhibition | The Impact of the Fourth Industrial Revolution on Higher Education in the Asia Pacific | 25 to 29 March 2018

www.apaie2018.org
Friedman (2016): “man and machine solving problems together...”

Artificial intelligence
AI

+ Human intelligence
HI

Coevolution

www.apaie2018.org
Fusing the physical, digital and biological worlds

Computer Science

Info Science

Business Sci.
Biology
Accountancy
Sports & Exercise Nutrition

Economics
Chemistry
Civil Engineering

Supply Chain
Pharmacy

Logistics
Medicine
Eng’g Mgmt.

Robotics Eng’g
Applied Physics
Agriculture

Architecture
Ecology & Environmental Mgmt.

APAIE 2018 Conference & Exhibition | The Impact of the Fourth Industrial Revolution on Higher Education in the Asia Pacific | 25 to 29 March 2018

www.apaie2018.org
Harmonization and Disruption... New Standards
Harmonization and Disruption...
New Standards

Regional ASEAN

National Accreditation

www.apaie2018.org
Harmonization and Disruption...
New Standards

Global
Bologna, Washington, ABET

Regional
ASEAN

National Accreditation

www.apaie2018.org
Harmonization and Disruption...

New Linkages

ASEAN ++

www.apaie2018.org
Harmonization and Disruption... New Linkages

ASEAN + +

Australia + Pacific

www.apaie2018.org
Harmonization and Disruption...

New Linkages

ASEAN ++

Australia + Pacific

Middle East

www.apaie2018.org
Harmonization and Disruption...

New Linkages

US/Europe

ASEAN + +

Australia + Pacific

Middle East

www.apaie2018.org
Harmonization and Disruption...

New Colleagues

- Recruit/attract the best faculty and students
- “balik” scientists
- Exchange programs
- Links with industry and support agencies
Added impetus on Role of External Relations and Internationalization

**GOAL**

Develop cooperation and capacity building for borderless, offshore, transnational and cross-border education, achieved through linkages with various stakeholders.

www.apaie2018.org
Initiatives for External Relations and Internationalization

Institutional mandate is to seek out exceptional strategic partners for

1 academic mobility for both faculty and students

2 research and academic programs

FOCUS ON

- Partnerships & Collaborations
- International Support Services
- Marketing
- Recruitment
- Development
- International Academic & Research Activities

www.apaie2018.org
Collaborations

Countries: 25
Partners: 104
MOAs: 70
MOUs: 34

APAIE 2018 Conference & Exhibition | The Impact of the Fourth Industrial Revolution on Higher Education in the Asia Pacific | 25 to 29 March 2018

www.apaie2018.org
Need for a Common Set of Values? (Schwab, 2016)

- Social capital
- Access
- Sustainability
- Collaboration
- Open sourcing

↔

- Market capital
- Ownership
- Consumerism
- Competition
- Intellectual Property
Friedman (2016): “man and machine solving problems together...”

Philosophy, culture, arts, theology

Liberal arts education

Artificial intelligence Human intelligence Human values

AI + HI + HV

“the good, the beautiful, the true...”

www.apaie2018.org
Skills wanted, regardless of industry:

• Ability to communicate
• Able to work in and with a team
• Able to do problem-solving
• Demonstrate initiative & enterprise
• Able to plan & organize
• Skilled at self-management
• Continually learning (lifelong learning)
• Able to apply and use technology
• Guided by values and principles
The Continuing Challenge...

Harmonization
Disruption
Common Guiding Values

To see that the successful implementation of our initiatives leads to the improvement of the lives of our students and of lives all over the world.
De La Salle University

Thank you!