



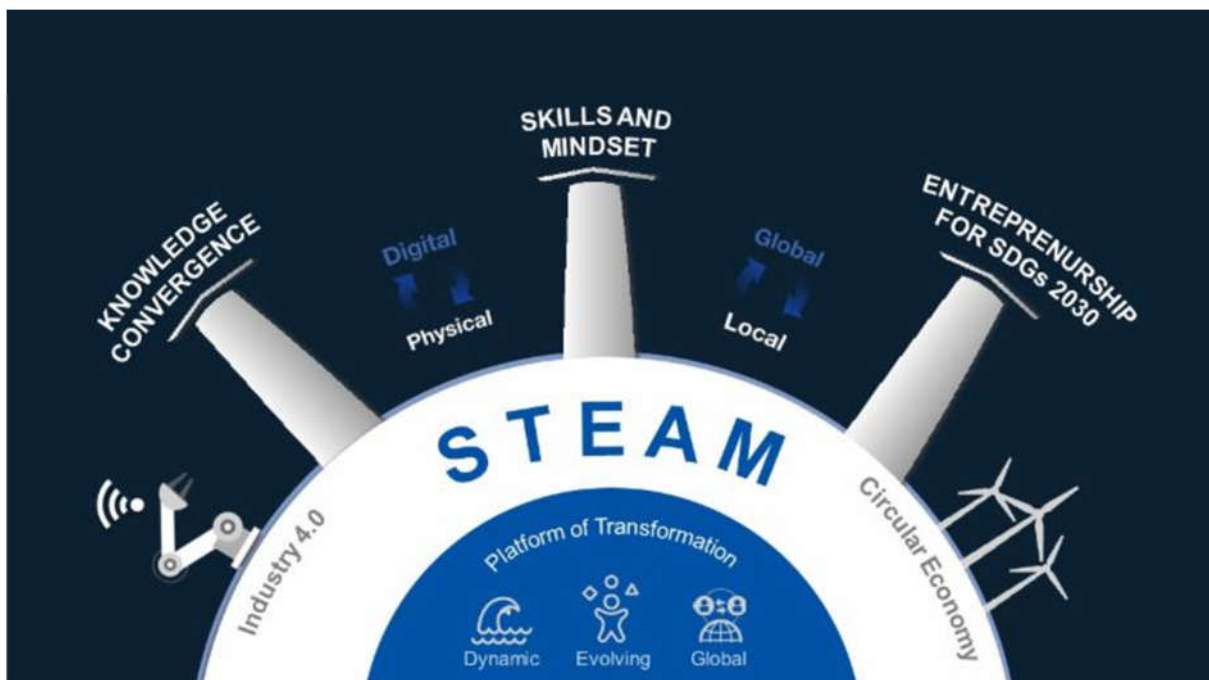
Asian Youth Driven
Leadership Platform for
Smart Circular Economy

STEAM Newsletter Issue 1, Dec 2018



Introduction

The 4th industry revolution (Industry 4.0) is already making its impact in various aspect of our society from production (agriculture and manufacturing) to consumption through convergence of robotics, ITC, design, IoT, data analytics and visualization. The economy is also evolving from Linear to Circular where food, energy and materials are produced and consumed more sustainably and waste being recycled and re-used. The convergence of all knowledge in Science, Technology, Engineering, Arts and Mathematics (STEAM) and Life Cycle Thinking (LCT)mindset has become increasingly critical in developing holistic & sustainable innovation in production & consumption of food/energy/materials. Fostering youth leadership for achieving the Sustainable Development Goals (SDGs 2030) has been one of the priorities of UNDP. We believe youth leadership with Knowledge Convergence, Skills & Mindsets and Entrepreneurship will create a more sustainable future for humanity and accelerate the transformation of our current economy towards Circular Economy (CE).



Supported by King Mongkut's University of Technology Thonburi (KMUTT) in Bangkok, we created the STEAM Platform which has been piloted at KMUTT for 7 months where we have transformed over 50 young researchers including undergraduate & graduate students as well as young faculty members with knowledge in I4.0 and Circular Economy, LC/Critical thinking, Strategic Communication Skills and Entrepreneurship Practices. The STEAM Platform is currently exploring partnership with UNDP and ADB in knowledge sharing & capacity building in co-creating solutions for achieving SDGs 2030. We look forward to providing STEAM Platform for global partners in 2019 and together we will change the world!

Spotlight

Green Technology Innovation Showcase -International Contest of InnovAtioN (iCAN) 2018,
Hong Kong, Jun. 23-25, 2018

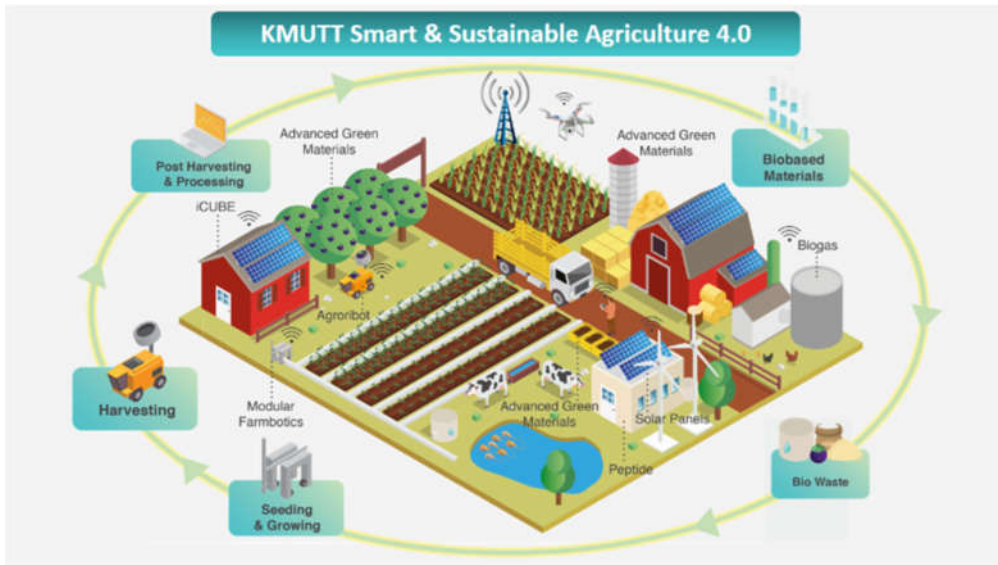
KMUTT selected 4 projects to showcase:

- a) Regenerating Cartilage Cells for a Stronger Knee
- b) Agrorobot-making Agriculture Smarter and Reducing Agriculture Waste
- c) Sustainable Replacement of Antibiotics and Preservatives
- d) Environmental Friendly and Machinable Lead-free Brass



Smart Circular Economy Innovation Showcase: Smart & Sustainable Agriculture 4.0 - Asian Development Bank's 6th Asia Youth Forum 2018 (ADB-AYF2018), Incheon, South Korea, Aug. 8-12th, 2018

KMUTT youth leadership team including undergraduate & graduate students from faculties of science, engineering and design as well as faculty members to communicate KMUTT research innovation on Industry 4.0. Watch STEAM video clip, click images below or visit KMUTT STEAM at Youtube.



Youth Leadership in Circular Economy- Workshop of KMUTT-ITA: Circular Economy and Advanced Materials, Oct. 30-31, 2018, Vienna, Austria



Inbound training and learning on Critical/Life Cycle Thinking Mindset, Communication and Leaderships



Global Partnerships
Industry 4.0: UNDP Asia Pacific Youth Leadership Forum & ADB-Asia Youth Forum 2018

Circular Economy: World Bank & ADB

GLOBAL PARTNERSHIPS

