AGRICULTURE 4.0

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"Agriculture is dying in. This is a sad reality of the country" – www.philstar.com, 2018

"The average age of our farmers as of date is 57 years old. And our youth are no longer interested in agriculture except the 'Farmville' in the Internet" - Ranibai Dilangalen, Agriculture Undersecretary, 2018

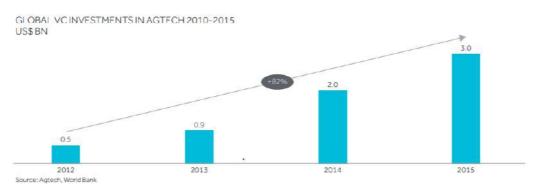
"Enrollment in agriculture courses has been declining over the years.. labor productivity in the agriculture sector is the lowest compared to industry and services sectors." – NEDA, 2018



THE GLOBAL TRANSFORMATION

In 2017, more than \$700 million were invested into AgTech

Source: Food and Agriculture Organization of the United Nations.



RECENT NEWS

Bloomberg NEWS

SoftBank Vision Fund Lead \$200 Million Bet on Indoor Farms

The SoftBank Group Corp. chief's Vision Fund is leading a \$200 million investment in Silicon Valley startup Plenty, which says it has cracked the code on growing crops indoors super efficiently.

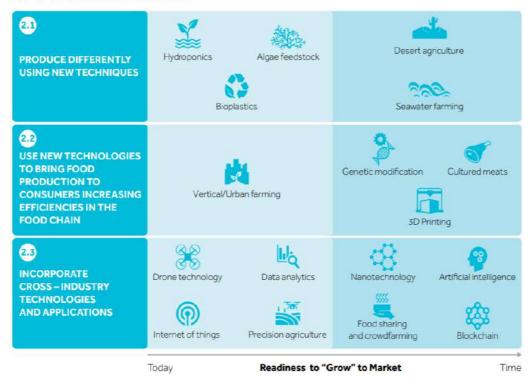
Bloomberg Technology

Bill Gates and Richard Branson Back Startup That Grows "Clean Meat"

IKEA, David Chang and the ruler of Dubai invest \$40 million in AeroFarms vertical farfarming

KKR invests \$100 million in arid climate agriculture firm

MAP OF TECHNOLOGIES AND MATURITY



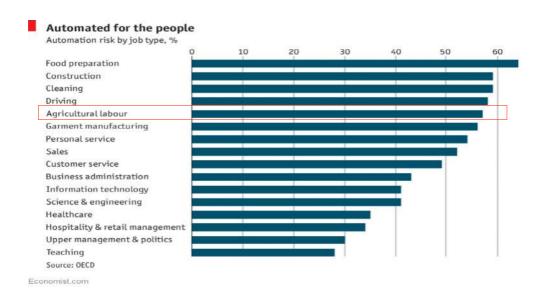
By 2024 the AgBot industry is estimated to be a \$5.7 billion industry — five times market size compared to 2016.





It is expected that by year 2050, the world population will be 9.1 billion and farmers globally must increase food production by 60-70% compared to 2007 to meet the needs of the growing population.

Source: Food and Agriculture Organization of the United Nations.



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THE WAY TOWARDS AGRI 4.0

Leverage on technological advancements

Enhancement of skills through certification trainings

Entrepreneurial awareness to raise business opportunities

Government support in Agri 4.0 (DA, DOST, DICT, CHED)

Enhancement of Agriculture curriculum that will address Agriculture 4.0

Appointment of good administrators to lead DA

Strengthen University and Industry Partnership

Thank You!

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AI2 PROGRAMS FOR COLLEGE AND PROFESSIONALS PROGRAM DESCRIPTION OUTLINE Introduction At the end of the program, students are · Principles of Al expected to come up with a business Core Technologies: Essential Certified Artificial Intelligence proposal that solves a specific real-life Mathematics, Data Science, Machine Professional (CAIP) issue using A.I. They are also expected Learning, Deep Learning, Reinforcement to create their own simple chatbot. Learning • Bots Cloud Definition and History At the end of the program, students are • Infrastructure Components Certified Cloud Systems expected to come up with a business proposal that aims to show the benefit of Cloud Technology Analyst (CCSA) Cloud Services using cloud computing in an organization Software Defined Architecture At the end of the program, students are expected to come up with a business proposal that aims to show the benefit of · Blockchain definition and history using Blockchain applications in an Blockchain Basic Structure and Forms Certified Blockchain organization. Students learn to compute · Blockchain Applications Professional (CBP) for potential income in crypto mining, Blockchain and Cryptocurrency concept and application of cryptography, dApplications creating their own block, and how dApps work

AI2 PROGRAMS FOR COLLEGE AND PROFESSIONALS

PROGRAM DESCRIPTION OUTLINE • Introduction Goes directly into building simple applications using Python, this program doesn't teach in dept programming language but rather, it · Built - in Data Types and operations Flow Controls teaches students how to build applications • Functions Certified Python Application Analyst (CPAA) using tools being used in the industry such as • Exercises Game Development with PyGameObject Oriented Programming Jupyter. At the end of the program, students are expected to create their own Python based applications like a Webpage, Data Science, Intro to Data Science Game, Tools, etc. Web Applications Chatterbot · Information and Communication Systems Talks about the importance and best practices Overview: Information Privacy and Certified Information Security and Data Privacy Practitioner (CISDP) of Information Security and Data Privacy. Security At the end of the program, students are $% \label{eq:controlled}$ • The Information Economy expected to know how to properly protect data · Legal Requirements in a given scenario Industry StandardsSpecial Problems on Privacy

AI2 PROGRAMS FOR COLLEGE AND PROFESSIONALS

PROGRAM	DESCRIPTION	OUTLINE
Certified Digital Marketing Professional (CDMP)	Talks about the end to end process of Digital marketing using the platforms used in the industry such as Facebook, Google, Instagram, YouTube and other biggest AdNetworks in the industry	Introduction to Digital Marketing Introduction to SEO Importance of Content Introduction to Social Media Marketing Soc-Med and Google Paid Media Reporting and Analysis Creating Marketing Campaign Plan and Proposal
Microsoft Office Specialist (MOS) 15 CPD points for Teachers	Microsoft Excel (Basic) Microsoft Excel (Advanced) Microsoft Word (Basic) Microsoft Word (Advanced) Microsoft PPT Microsoft Access Microsoft Outlook	